User manual

go1984

logiware

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go1984

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1 Introduction

go1984 is software designed for professional and hassle-free monitoring by closed circuit TV (CCTV). It sets a new benchmark in the industry: it is simple to use, packed with features and available at an affordable price.

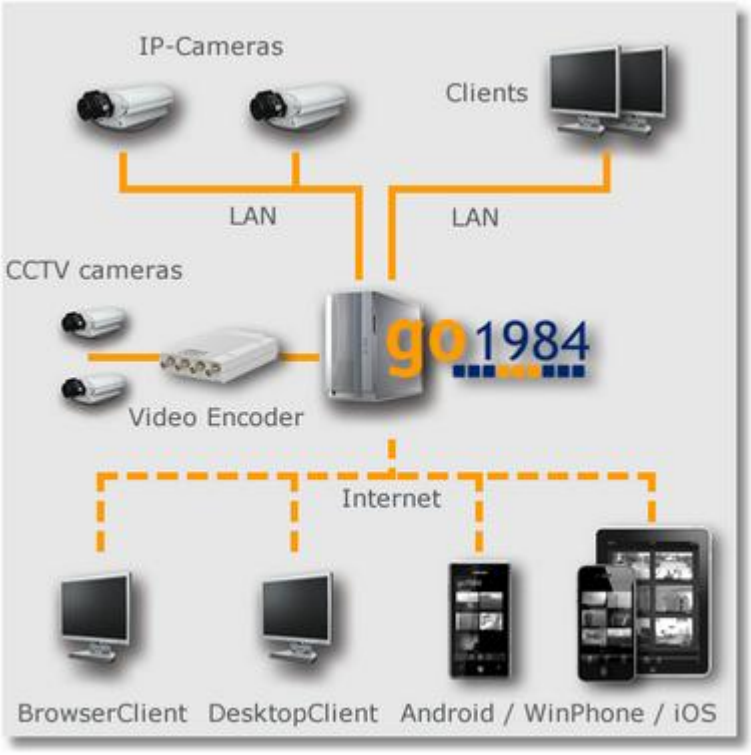
go1984 features everything you'll ever need to carry out professional CCTV surveillance, including:

- Live monitoring
- Recording (timer-controlled, motion-triggered or permanent)
- Calendar functions
- Control of PTZ cameras
- Remote access via the network or Internet via Windows PC, Apple Mac, iOS, Android or Windows Phone device
- Notification options: acoustic, by e-mail, by voice call via ISDN or by push-notification

The software works as a so-called "hybrid system", which means it is capable of processing digital network cameras as well as analog video sources via video encoders. Companies with analog video technology can use the software to assist the "smart transition" to the digital world while integrating their existing hardware. go1984 thus makes an important contribution to protecting your investments.

go1984 supports the hardware of many well-known manufacturers such as, for instance: Axis, Sony, Allnet, Abus, Panasonic, Mobotix, Bosch, Siemens, Basler, Samsung, Grundig and many others.

The following figure illustrates the connectivity options provided by go1984:



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2 Editions

go1984 is available in various editions. The following figure highlights the differences.

Feature	Pro	Enterprise	Ultimate
Permitted number of IP-cameras (1)	unlimited	unlimited	unlimited
Performance indicator (2)	**1**	**2**	**4**
Processing of H.264 up to max. resolution (3)	640x480	1280x720	2880x2160
Secure SSL connection (web server & IP-camera)	–	–	✓
Can run as service	–	✓	✓
Time based ring storage	–	✓	✓
Program start in case of alarm	–	✓	✓
PTZ guard-tour support	–	✓	✓
Max. number of devices for push notification (4)	2	8	64
Replay cache in the Silverlight Client	–	✓	✓
Simultaneous client connections...	2	unlimited	unlimited
...via browser	✓	✓	✓
...via Silverlight Client	✓	✓	✓
...via Desktop Client	✓	✓	✓
...via iOS device	✓	✓	✓
…via Android device	✓	✓	✓
...via Windows Phone	✓	✓	✓
Support for multi-core processors	✓	✓	✓
Integrated user administration	✓	✓	✓
Adaptive motion detection including masking function	✓	✓	✓
Scheduler	✓	✓	✓
Image center with individual views	✓	✓	✓
Image center with multi-monitor support	✓	✓	✓

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Feature	Pro	Enterprise	Ultimate
Unlimited recording capacity	✓	✓	✓
Pre-/post-alarm recording	✓	✓	✓
Network drives (NAS, SAN) for recording	✓	✓	✓
PTZ control for movable cameras	✓	✓	✓
E-Mail sending in case of alarm	✓	✓	✓
Telephone call in case of alarm	✓	✓	✓
FTP upload in case of alarm	✓	✓	✓
Built-in DynDNS client	✓	✓	✓
Support of USB-/analog-cameras (DirectX)	✓	✓	✓
IO Control (IP-camera IOs or logiware IO-Stick)	✓	✓	✓

(1) Due to system restrictions max. 16/32/64 megapixel overall in Pro/Enterprise/Ultimate edition.

(2) See http://www.go1984.com for further information regarding the performance indicator.

(2) H.264 support only for IP-cameras accordingly listed or using general RTSP/RTP support (camera model "RTSP compatible"). H.264 is available in all editions up to 4K (UHD). Further processing is carried out depending on the edition up to the above mentioned max. resolution.

(3) Number of push notifications is limited to 100 messages per device per day. Precondition for push notification is an active go1984 update service.

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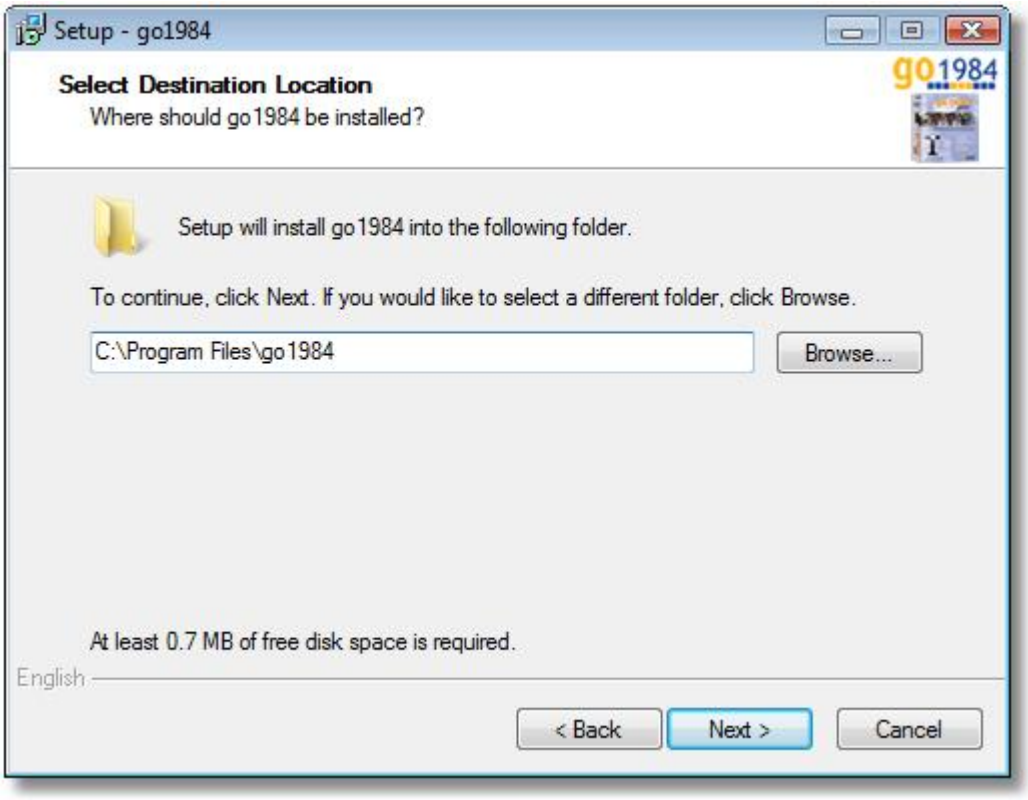
3 Installation

Installing go1984 is a matter of minutes even for users unfamiliar with the program. An unregistered version of the software can be tested for 30 days with all its functions. An uninstaller is included in the download so that you can remove go1984 immediately from your computer if you are not happy with the program.

To start the installation, click on the following icon:

First choose the language you want for the installation process.

If you prefer to install to a different directory or hard-drive, please select the corresponding option in the following dialog.


Setup - go1984
Select Destination Location
Where should go1984 be installed?
go1984
Setup will install go1984 into the following folder.
To continue, click Next. If you would like to select a different folder, click Browse.
C:\Program Files\go1984
Browse...
At least 0.7 MB of free disk space is required.
English
< Back
Next >
Cancel

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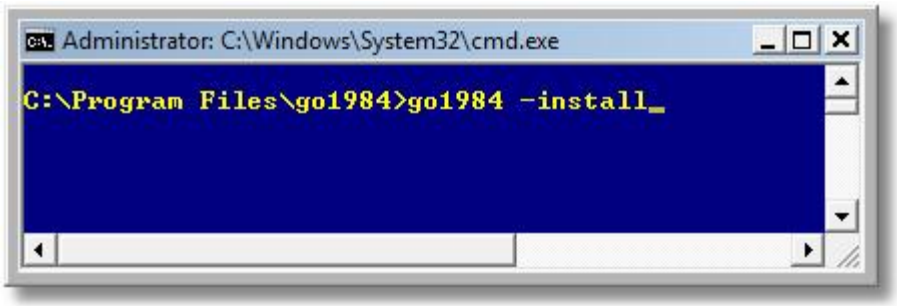
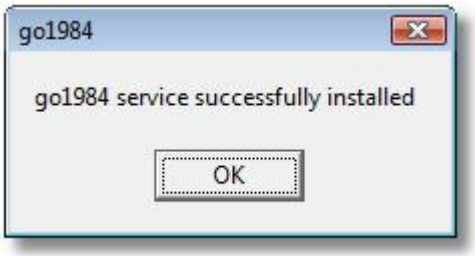
The installation of go1984 has now been completed. The installation routine is closed when you click on the "Finish" button. You can choose to have go1984 launched directly afterwards.

In the Enterprise and Ultimate edition go1984 can be installed as a service. To do this, you start the program on a one-off basis via the command line using the parameter "-install".



A message will appear indicating that the service has been successfully installed.



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4 Installing an update

To install a new version of go1984, shut down go1984 and install go1984 on top of the existing version. The existing version of go1984 must be at least 3.5.x.x. to be able to do this. All the existing settings will be retained during this.

However, you should back up the folder "logiware.gmbh", which contains all the settings, before going ahead with installation. You will find this folder under the following path:

- Under Windows 7/Vista/2008: C:\ProgramData\
- Under Windows XP/2003: C:\Documents and Settings\All Users\Application Data\

In general, even after the new version of go1984 is installed, the normal configuration, including all the settings, remains the same. But there is no guarantee that this will be the case, which is why the back-up procedure described must be carried out.

When migrating to a new system or reinstalling the operating system, the above-mentioned folder "logiware.gmbh" can simply be inserted from the existing system in the new system under the path specified above. This will ensure that all the configuration settings are applied. Only the activation code needs to be input again.

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5 Launching the program

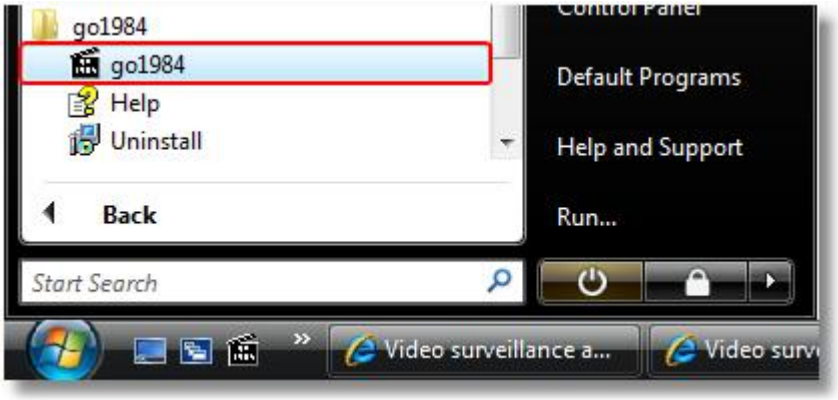
After installing go1984, there are various ways to launch it.

1. Launch using the Windows quick start bar

2. Launch using the desktop

3. Launch using the start menu

Select: Start -> All Programs -> go1984 -> go1984



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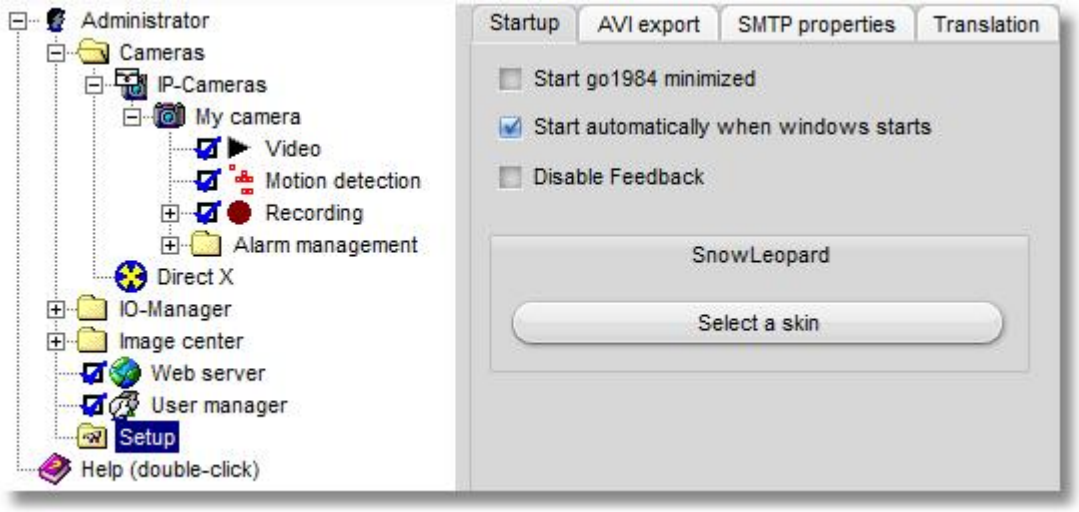
4. Autostart

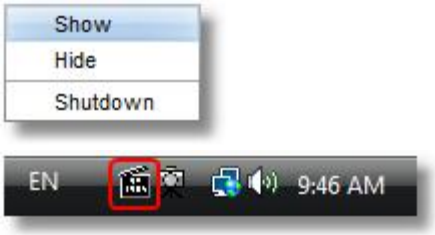
If you want go1984 to be launched automatically when your computer is switched on, please activate the option shown in the following diagram. If you are going to run go1984 in service mode (see "Installation" section), deactivate this option so that go1984 service will then be launched automatically.



Note:

Most Windows programs are shut down completely when you close the program window. go1984 is only hidden and continues to run in the background.

While the program is running, the go1984 symbol is displayed in the task bar near the time. You can use it to shut the program down completely or to bring it back to the foreground. Clicking on the icon with the right mouse key will open the corresponding menu.



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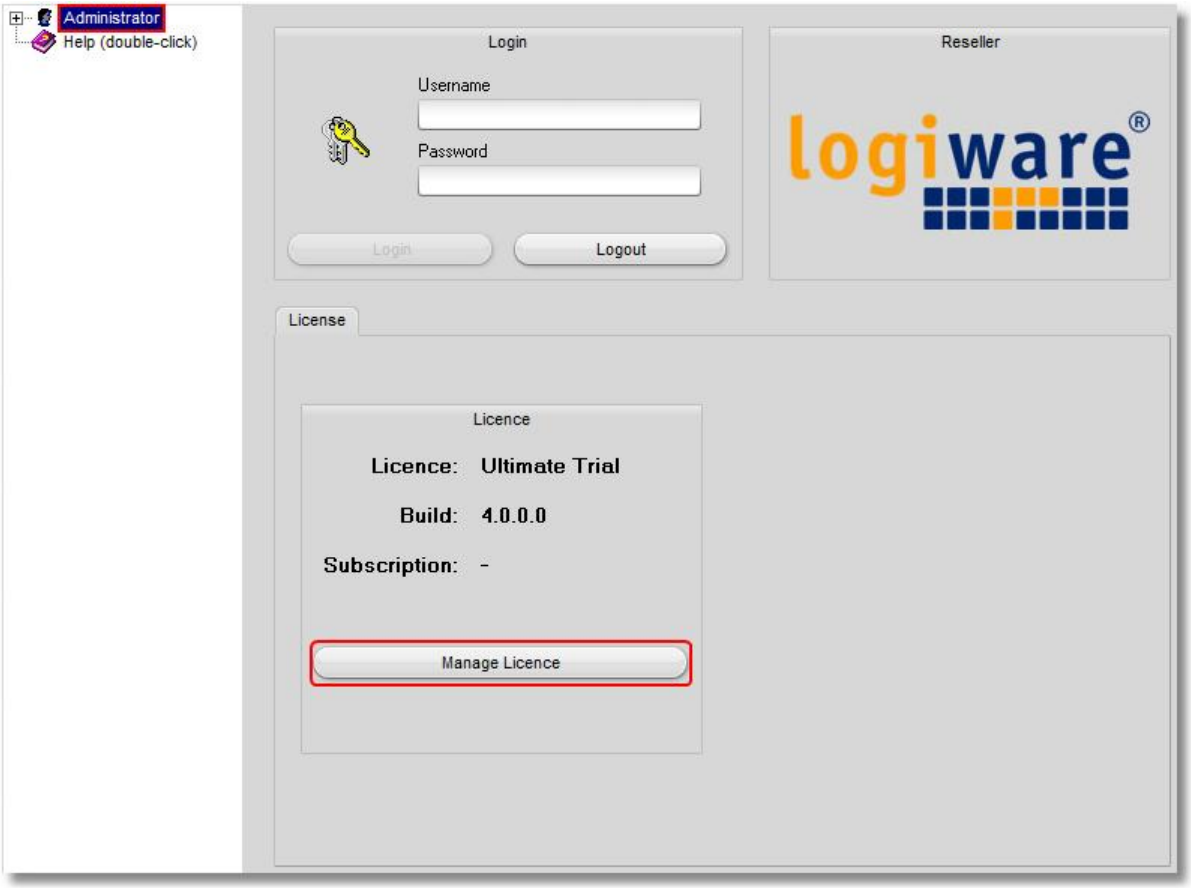
6 Activate go1984

go1984 runs as a demo version after being installed. In order to activate go1984, you need to enter the 10-digit activation code you purchased into the appropriate field. To do this, open the License Management:



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Any settings (e.g. connected IP cameras) that have already been applied in the demo operation will be retained and don't need to be applied again.

Note:

For the activation an Internet connection is required. Make sure the activation server on www.go1984.de is accessible on port 443 (https).

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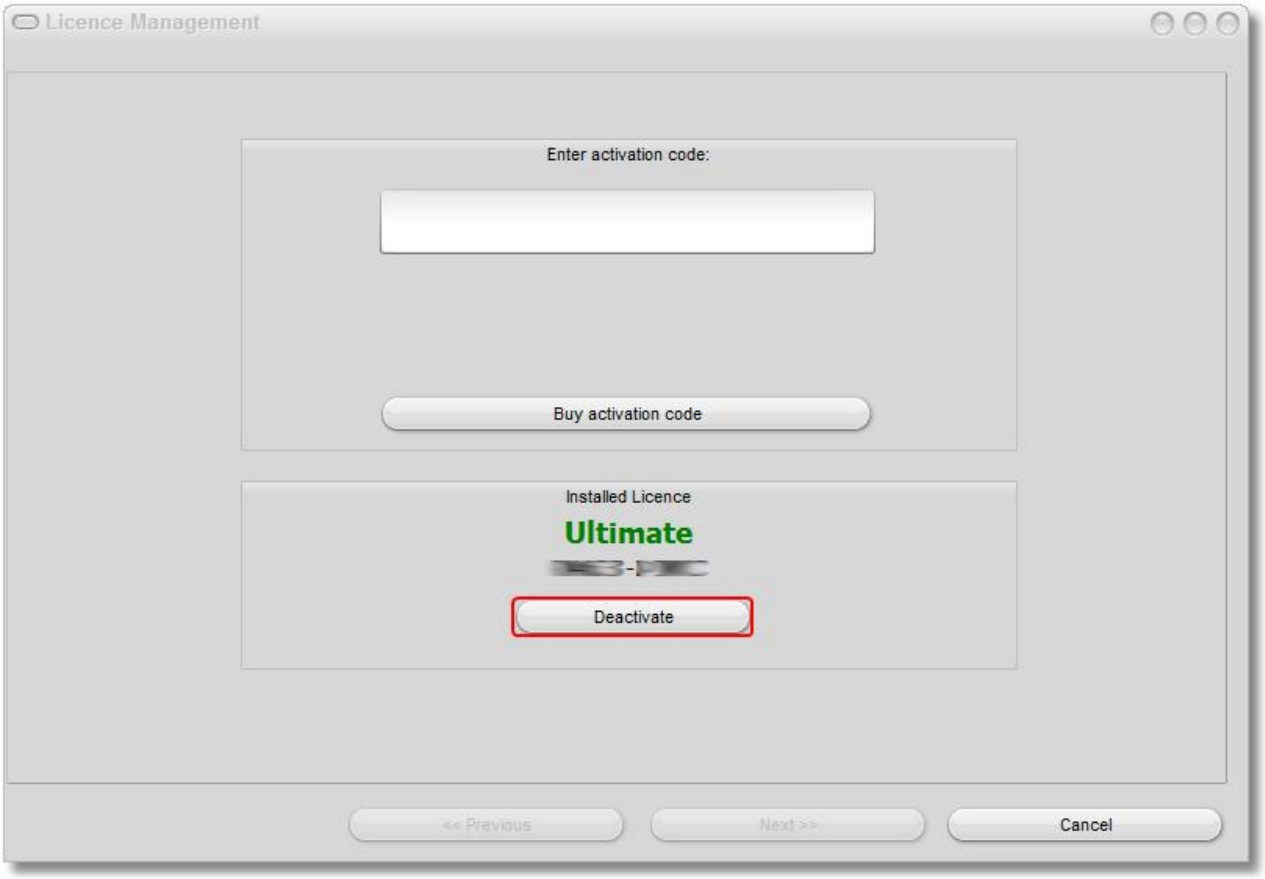
7 Deactivate go1984

Do you want to move your go1984 installation on another computer, the activation code on the old computer must be deactivated before.



Note:

For the deactivation an Internet connection is required. Make sure the activation server on www.go1984.de is accessible on port 443 (https).

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8 Basic setup

In order to use go1984, one or more image sources are required.

This section explains how to integrate cameras or other image sources into go1984. It also provides information on how to configure recording, on the integrated motion detection feature and on the notification options. We'll be working on the basis of a "typical" case, for which the pre-defined, automatic program settings are sufficient.

If you wish to make further changes or improvements to go1984, please refer to the section "Additional settings".

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8.1 Adding a camera

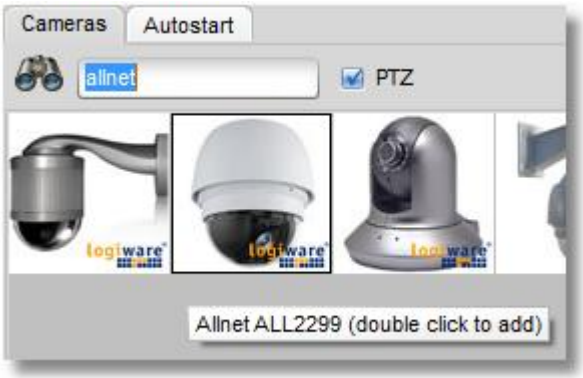
8.1.1 IP camera

To add an IP camera, select the entry "IP cameras" in the go1984 explorer. A list is displayed showing you pictures of all the available cameras, arranged in alphabetical order. You can use a filter to conveniently restrict the search for the model you want. You can use characters and numerics in any combination. For instance, the text "allnet" will list all the cameras that include this combination of letters in their name.

Similarly, a numeric combination such as "210" or an alphanumeric filter such as "210a" can be input as search terms.

If you select the "Ptz" checkbox you can limit your search to cameras with PTZ support.

You then double-click on the picture of the camera model you want to add.



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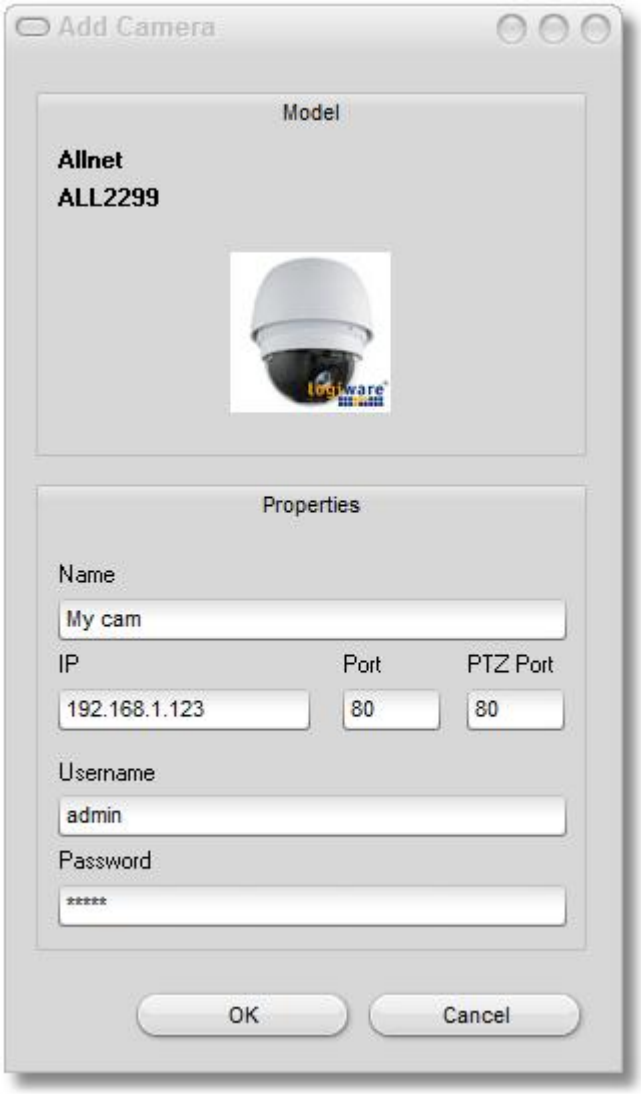
The following dialog box appears.



You should set the following parameters in it:

Name	Give the camera a unique nickname which can be used for it in go1984.
IP	Enter the camera's IP address or host name here. If you have not yet assigned the camera an IP address, refer to the camera manufacturer's documentation.
Port	If a camera port other than the default port "80" is being used, you can change this here.
PTZ Port	If the selected IP camera is a PTZ camera, you can adjust the port here for camera control, if necessary.
Username	If authentication is required to access the camera, enter your username here.
Password	Enter your password here for the authentication process mentioned above. Refer to your camera manual for details of the default passwords.

Finally, click on "OK" to confirm your details.

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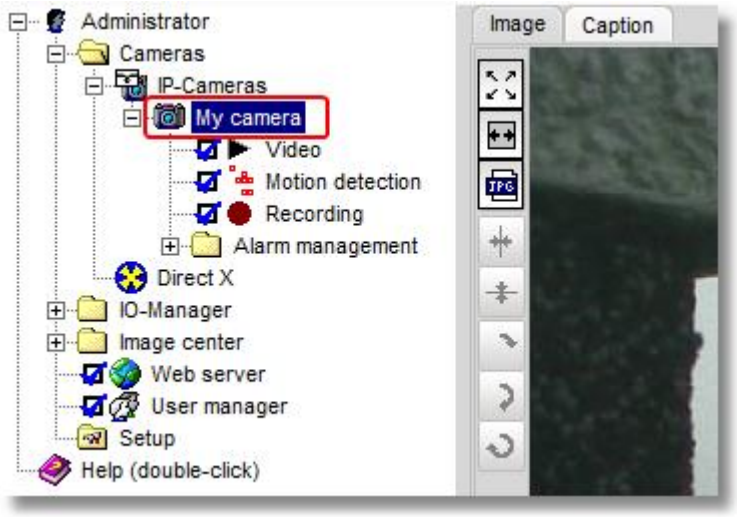
The camera you've added will now appear in the branch "IP cameras" of the go1984 explorer. The basic setup of the camera has now been concluded. go1984 has automatically activated motion detection and recording for this image source. As standard, cameras only record when there is a detected motion. If you want to record images permanently, simply deactivate the motion detection option by clicking on the "Motion detection" option box.



Note:

In the case of IP cameras that do not support simultaneous MJPEG and MPEG4 (dual streaming), or where only MPEG4 streaming is activated by default, MJPEG or Dual Streaming must be specifically selected in the camera settings (e.g. Allnet, Intellinet).

The section "Additional settings" provides information on how to edit further camera parameters such as resolution, frame refresh rates or panning.

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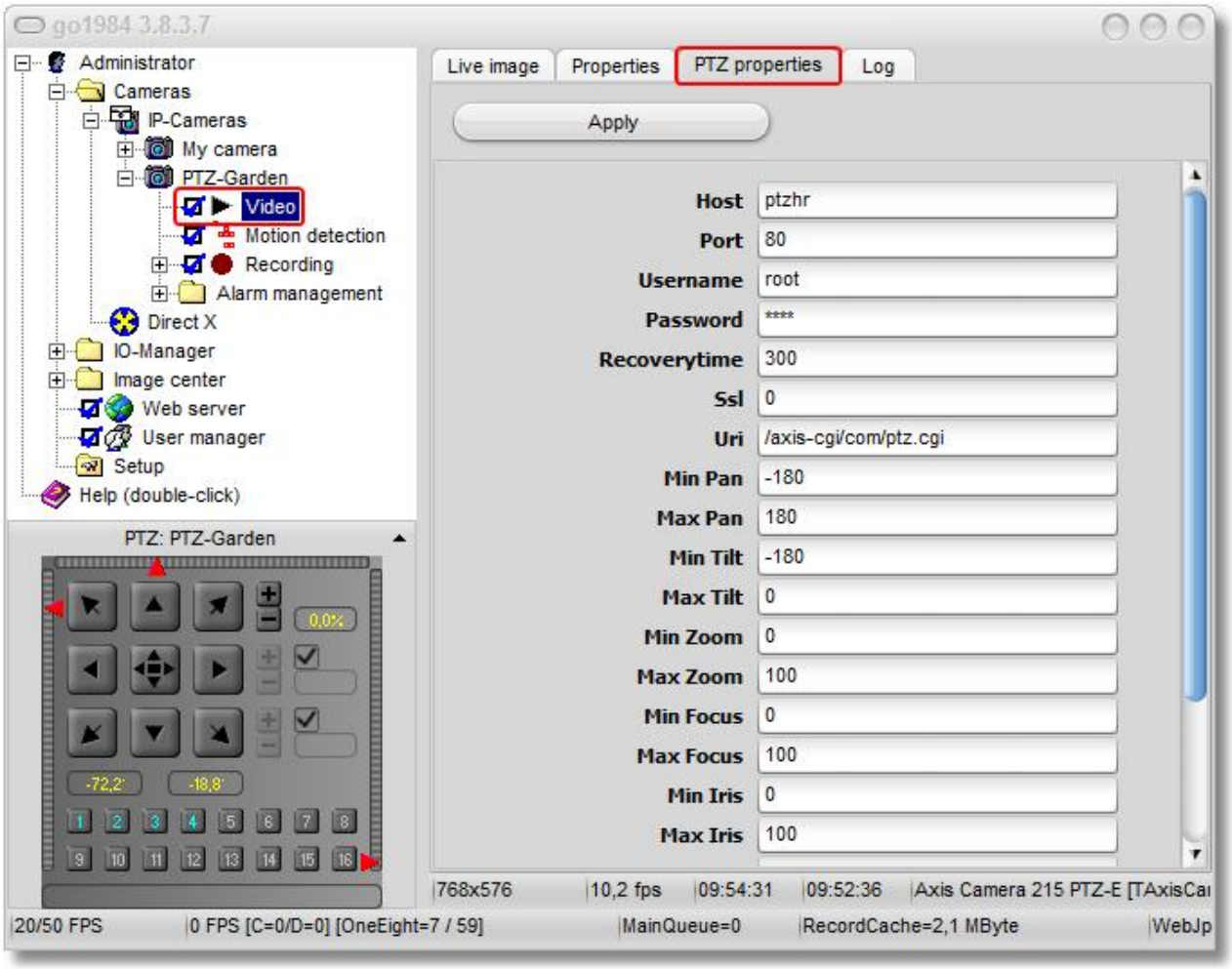
8.1.2 PTZ camera

If the IP camera which has been added is a PTZ camera (PTZ = Pan/Tilt/Zoom), you can easily operate this via go1984.

Note:

If the camera's live image appears but you cannot use the PTZ control, check the settings for "Host", "Port", "Username" and "Password" under "Video" -> "PTZ settings" to see that they are correct.



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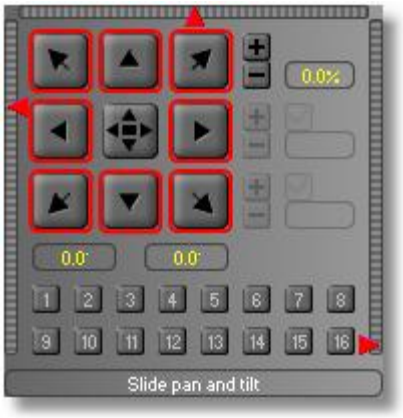
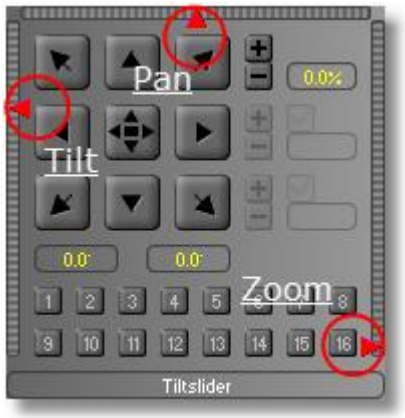
There are different camera control options depending on the camera model:

1. Via the arrow keys

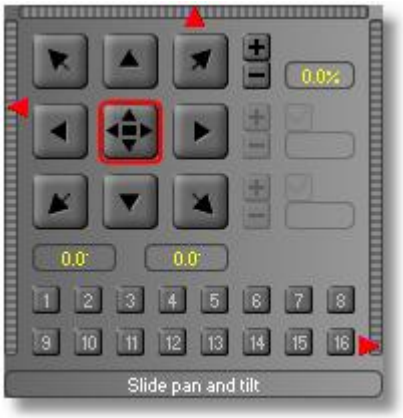


2. Via the slider



3. Via "click and drag"

Click on the button in the centre and hold the mouse button down. Now move the mouse crosshair within the PTZ field to move the camera to the position you want, which also allows you to use the pan and tilt functions comfortably:



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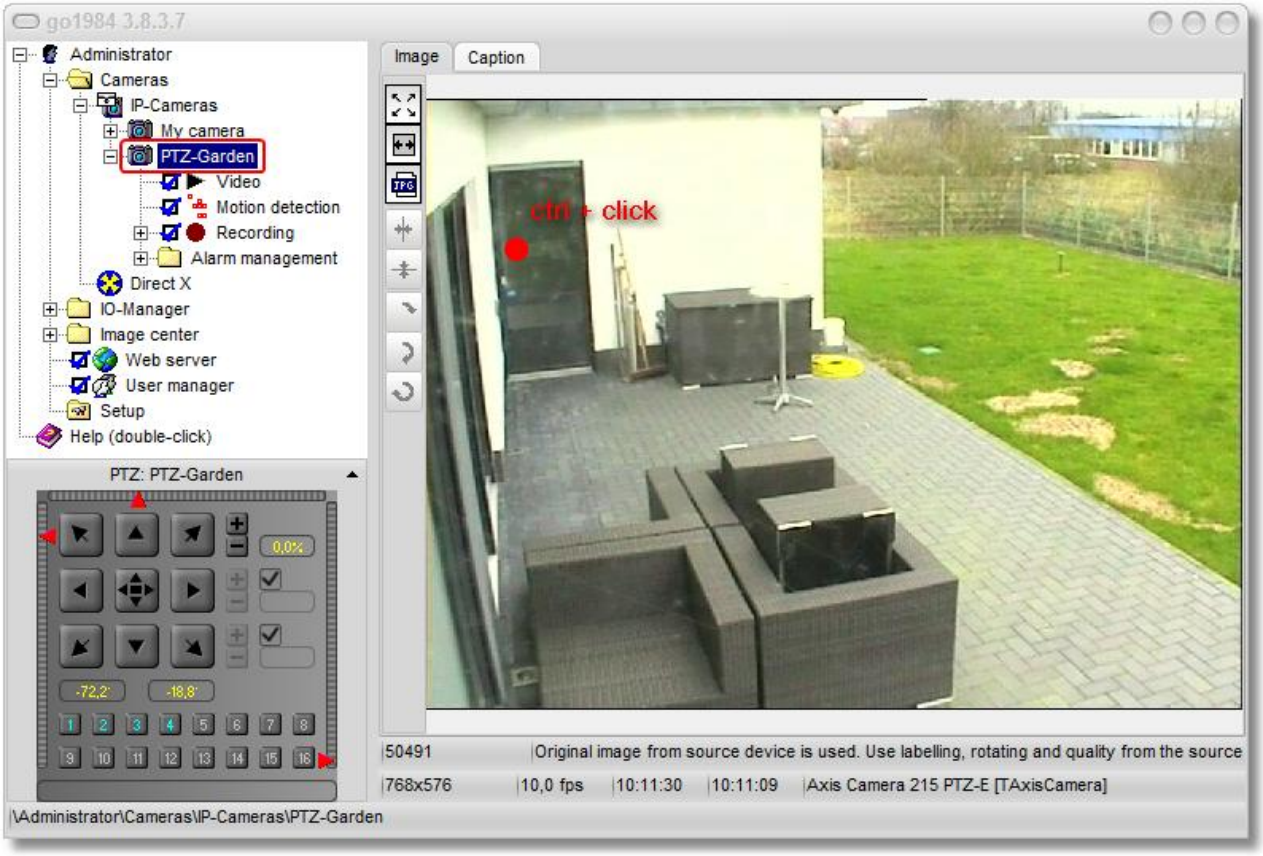
4. Via "Ctrl" + mouse-click in the live image

If the live image is visible and the camera name highlighted, you can also control the camera using the Ctrl key and clicking inside the live image. In order to control the camera zoom, go across the image with the mouse and move the mouse scroll wheel. These functions are also supported in an image center display.



5. Via "Area zoom"

If the camera being used supports an area a frame can be created in the image by holding the Ctrl key down, which is then highlighted. You need to select the camera name again to do this. This function is also supported in an image center display.

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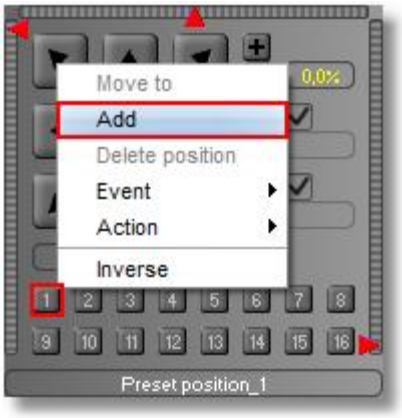
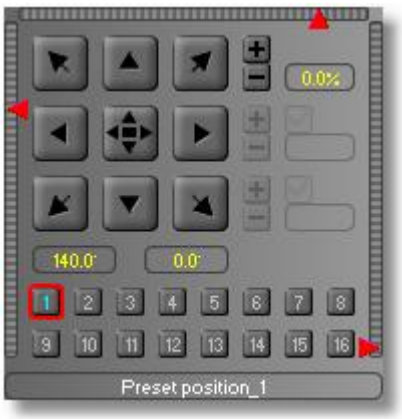
Preset-Positions

You can save up to 16 camera positions for each camera. To do this, simply click on the position you want.



Then enter a position description:

The new position is now displayed in color and can be accessed by clicking on it.



If you right-click on a saved position it can be deleted again:

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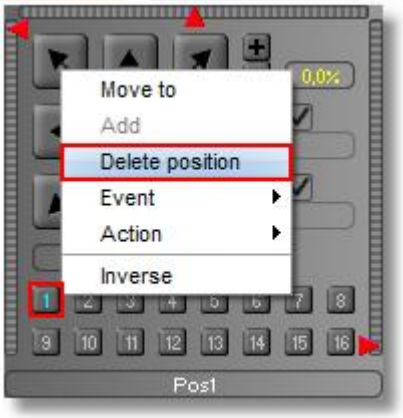

Note:

Sometimes administrator rights are required to be able to save or delete positions for the camera.

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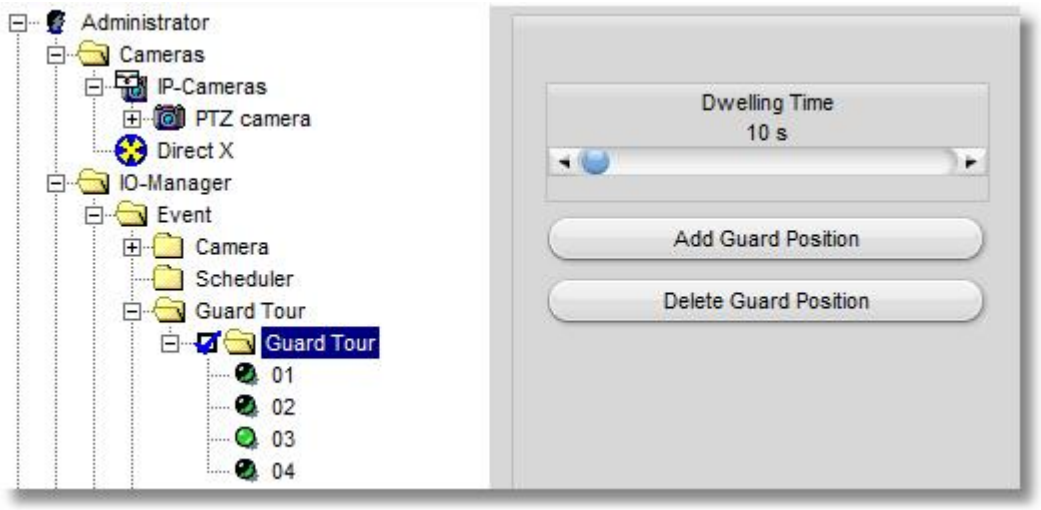
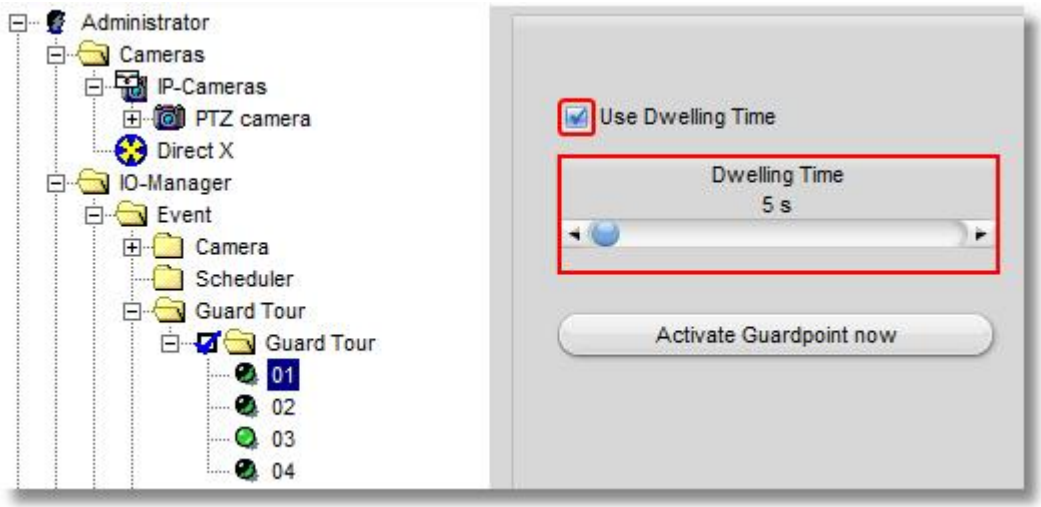
PTZ Guard Tour

Guard tours can be set up for PTZ cameras with preset support from go1984, making it possible for specified camera positions to be gone through automatically with set pauses.

First of all, create in the "I/O Manager" under "Event"-> "Guard Tour" a new guard tour with the number of positions you want, which you would like to link later on to the camera preset positions. You can use the visible slider to set a general pause duration per position in seconds:



If you want to set a pause duration for some positions that varies from the general pause durations, activate the relevant function after selecting the position, and then use the slider to set the time you want.



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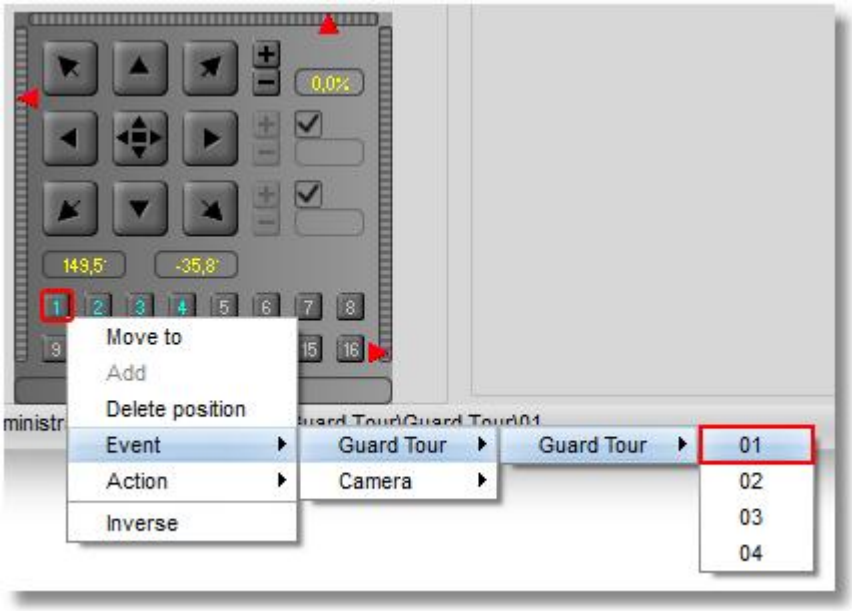
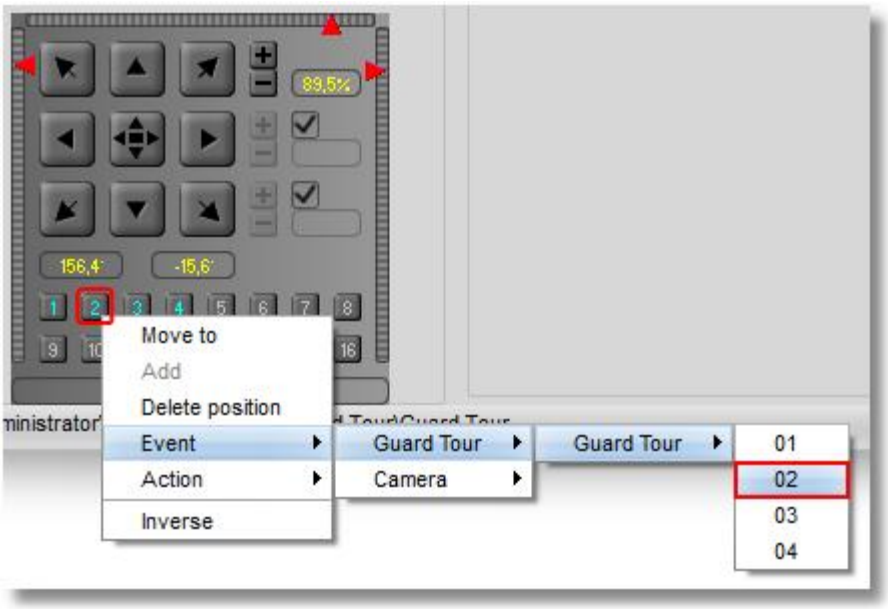
Now link each of the preset positions that you have previously created with the corresponding guard tour positions:





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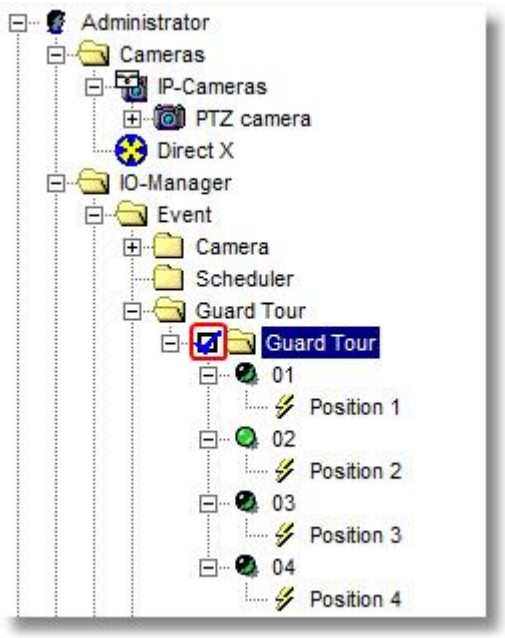
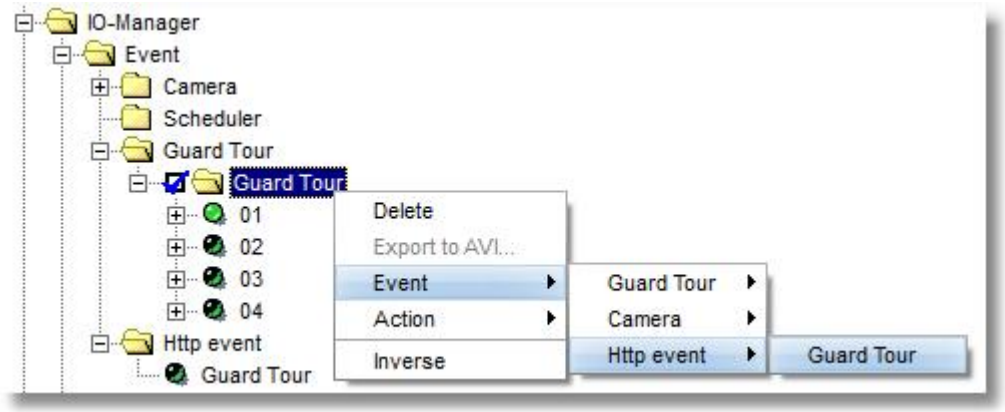
You can interrupt or continue the guard tour sequence at any time by checking or unchecking the relevant option box.



You can also right-click with the mouse to link a scheduler or a previously created Http event to the option box with the aim of launching the guard tour only at certain times or activating it via one of the client solutions.



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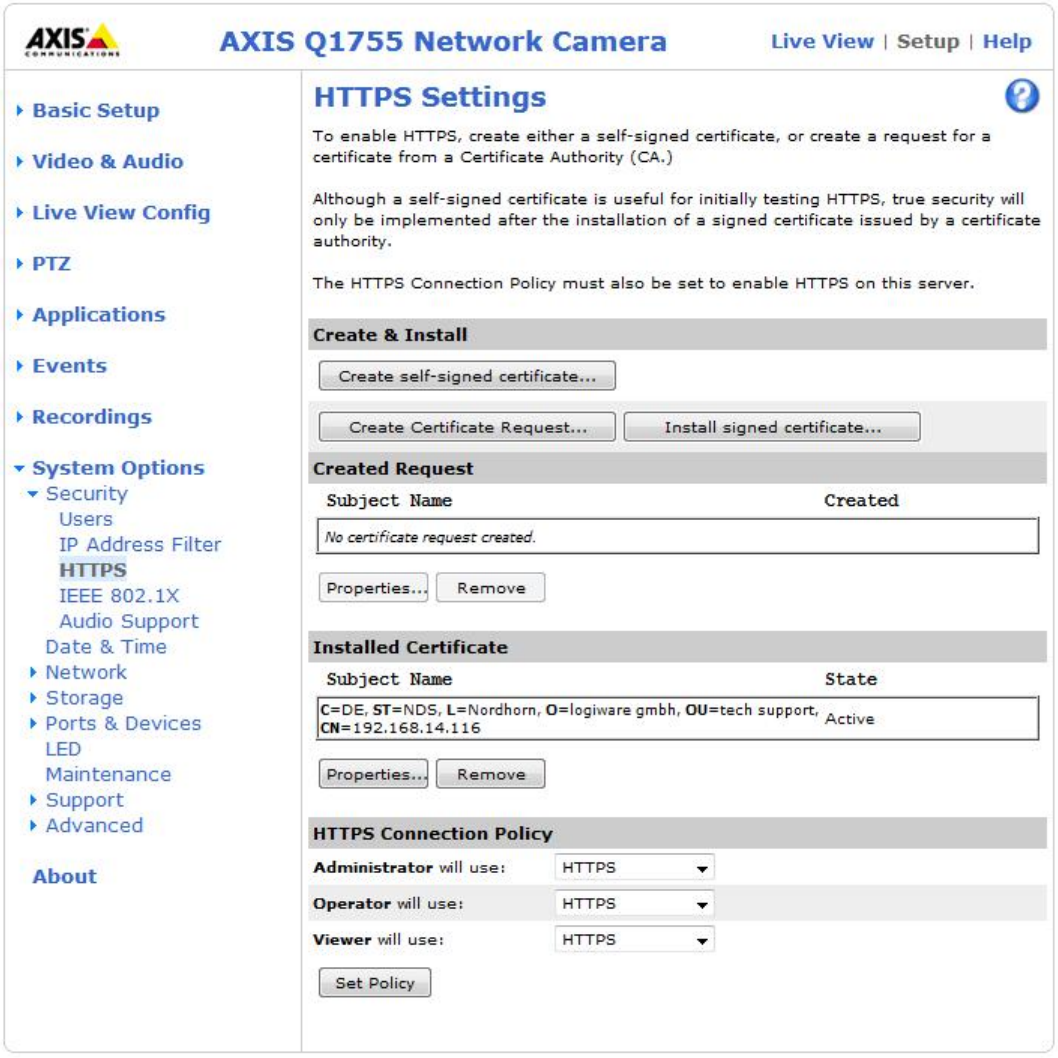
8.1.3 Camera link via SSL

The go1984 Ultimate Edition allows you to connect multiple MJpeg cameras via a secure HTTPS connection using SSL encryption. For this to happen, the camera needs to allow the connection via HTTPS on its side. The HTTPS protocol offers authentication via an SSL handshake and subsequent encryption of the communication.

The figure below shows an example of the settings using the Axis Q1755 IP camera. You can use a self-signed certificate ("Create self-signed certificate...") to carry out a first HTTPS test. However, this will only encrypt the connection and not provide authentication of communication partners.

We therefore recommend that you request a certificate via an appropriately authorized certification authority. Once the certificate has been installed, HTTPS should also be set as a connection policy ("HTTPS Connection Policy").



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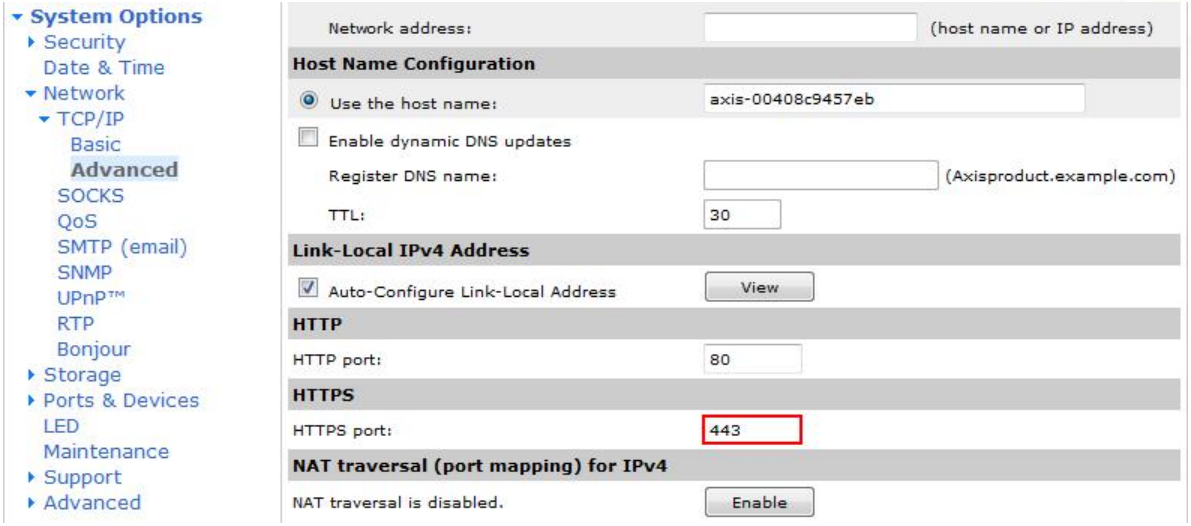
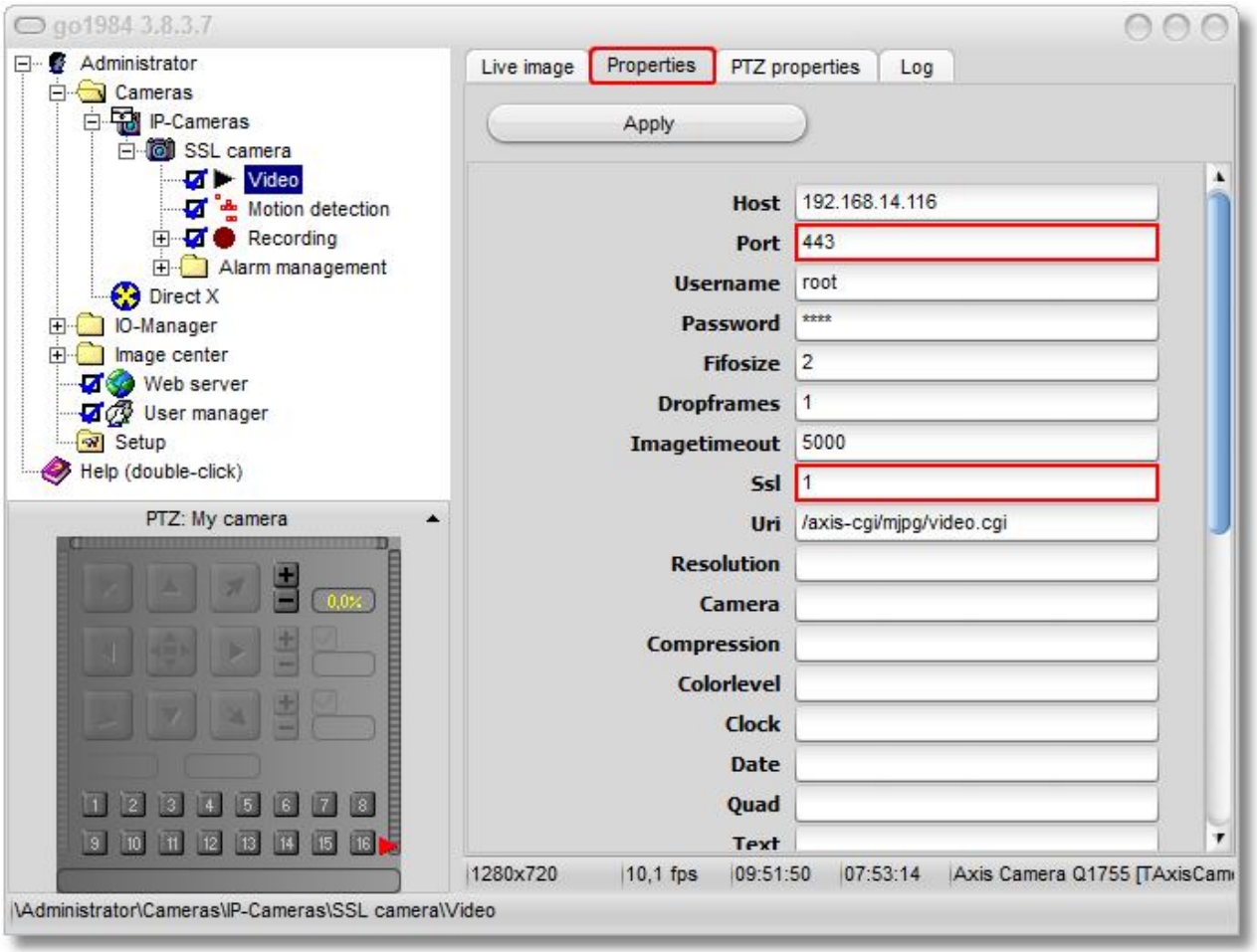
The default port for HTTPS connections is 443. Check whether this is available accordingly in the camera settings.



This will allow the camera in go1984 to be connected to port 443. In addition, in the camera settings, you need to select Video -> Properties (also Video -> PTZ properties for PTZ cameras) and set the SSL parameter to "1".



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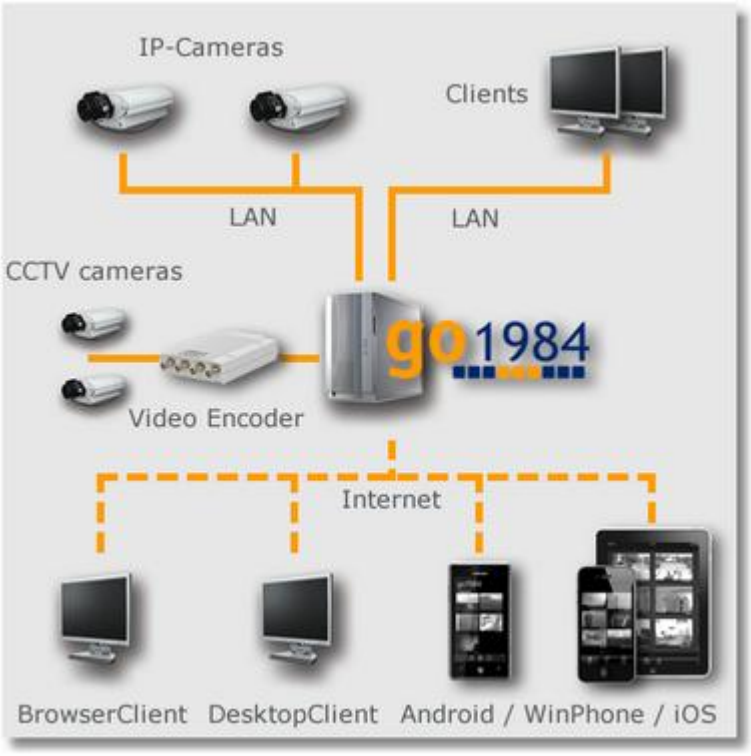
8.1.4 Analog camera

go1984 also supports, in addition to IP cameras, analog cameras, which can be connected via video encoders. Video encoders digitize the images from analog cameras and make them available via the network, in the same way as for an IP camera.



Video encoders also exclude any performance problems or incompatibilities that may frequently crop up in connection with capture card drivers.

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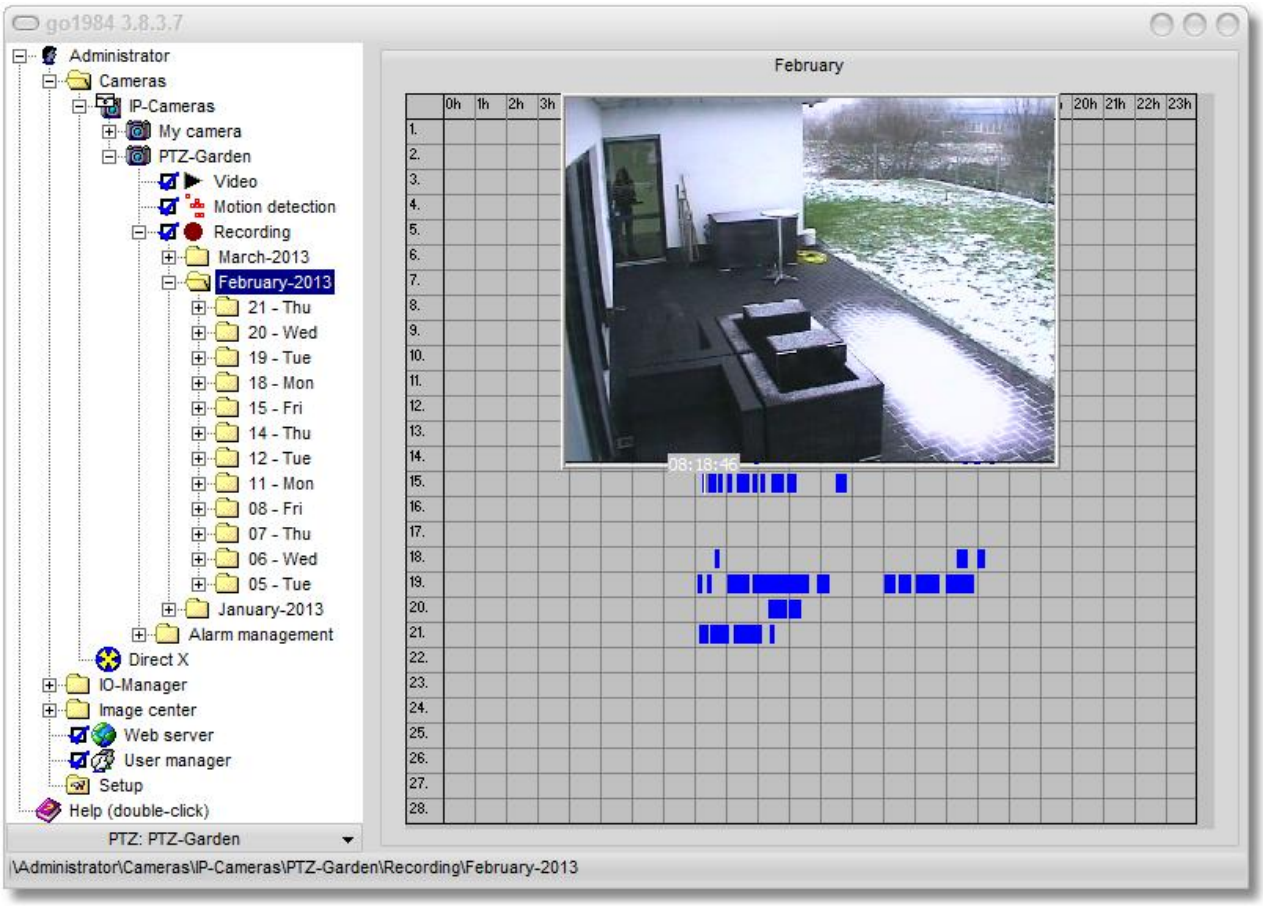
8.2 Recording

Recordings are automatically sorted by month to the respective camera in the go1984 explorer. If you wish to view the recordings, select the "Recordings" entry of the respective camera in the go1984 explorer. You'll be shown a list of all the months for which scenes are available.

Monthly overview

Selecting a month will take you to the monthly overview. Days are listed vertically, times of day horizontally. Each scene is represented as a little blue mark in this overview. Moving the mouse pointer over the marks calls up a quick preview of the corresponding scene. You can open the selected scene for viewing by double-clicking on it.



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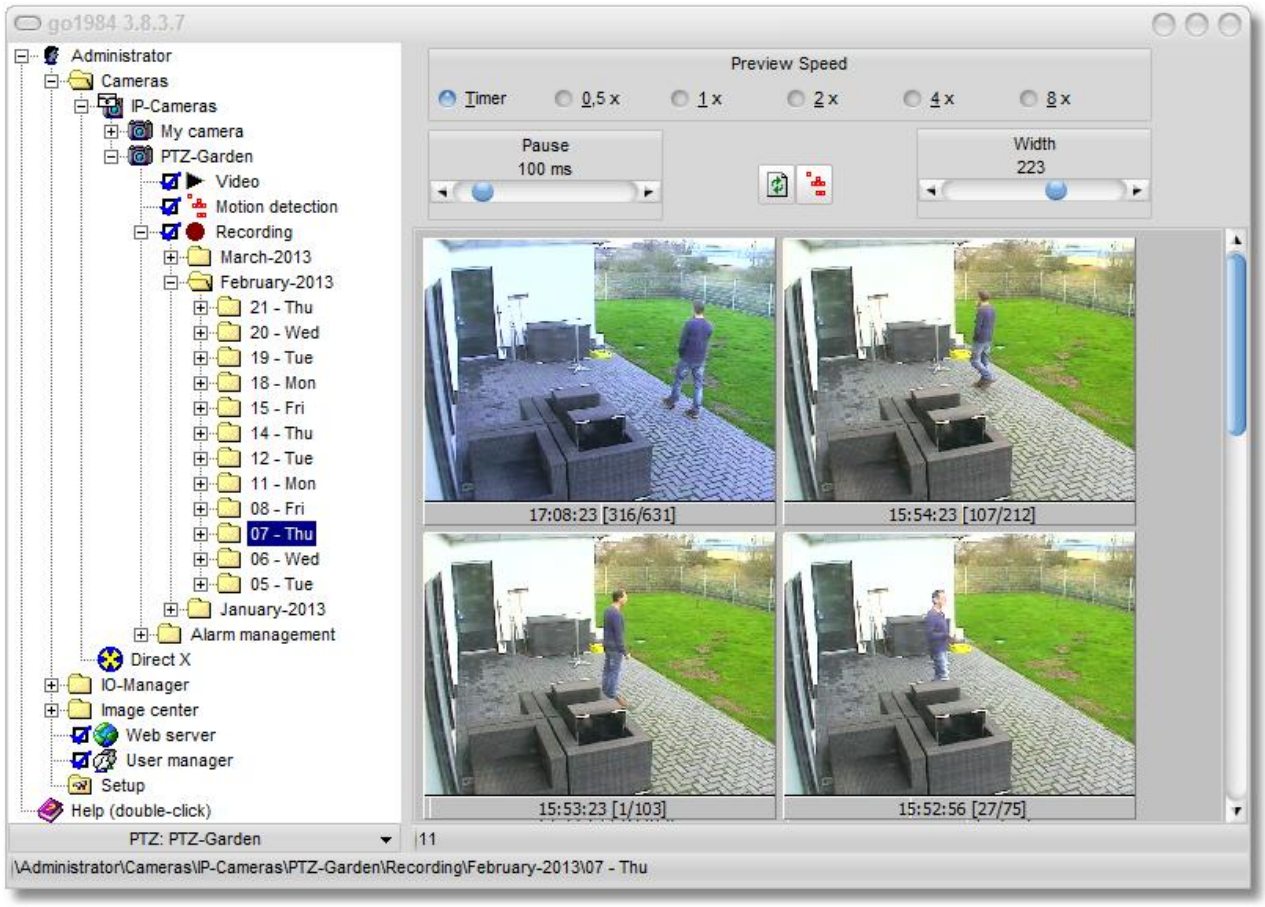
Daily overview

If you wish to view the recordings for a specific day, select the day in the go1984 explorer as described below. You'll be provided with an overview over the scenes recorded on that day. Here, too, moving the mouse pointer over a scene will display a preview. Open the selected scene for viewing by double-clicking on it.



In addition, you have the option of changing the playback speed of the preview mode and of defining the width of the preview scenes.

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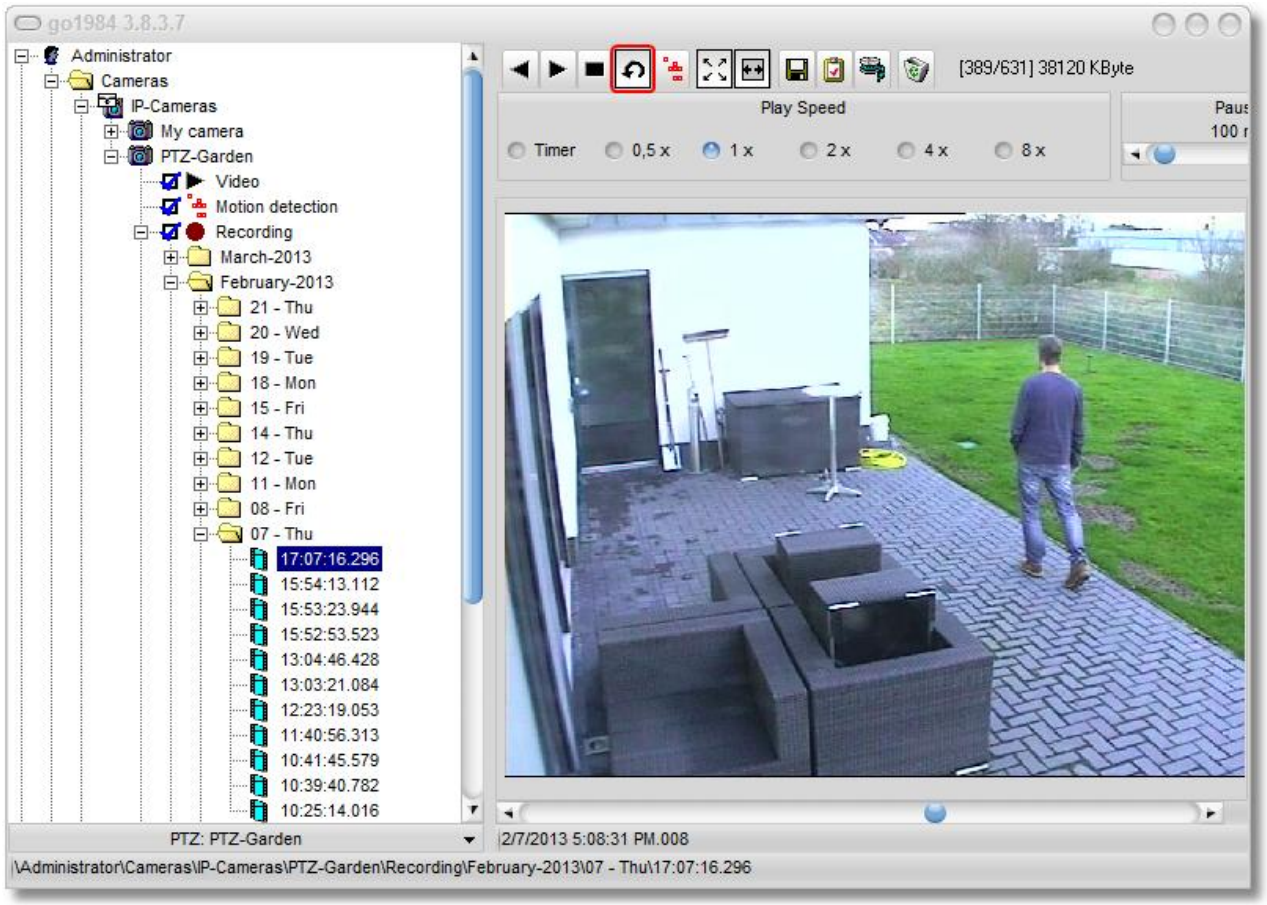
Scene playback

You have two different modes available when you come to play back individual scenes.

	Loop mode: the scene that is currently selected will be re-run at the end of the scene.
	Endless mode: all the scenes recorded on the camera are played back in sequence in chronological order.



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8.2.1 Calculating memory requirements

One of the most frequently asked questions is: how much hard-drive space will the recordings use? There's no simple answer to the question because many factors play a role. These include:

- The number of cameras (**AK**)
- The number of frames per second (**FPS**)
- The image size (**KB**)
- The amount of compression
- Whether recording is permanent or motion-triggered

In order to get a rough idea of memory requirements in the case of permanent recording, use the following rule of thumb: You can usually assume the image size (KB) to be about 25-30 kilobytes.

AK * FPS * KB = kilobytes/second

This will give you the approximate number of kilobytes needed per second recorded. Multiplying by 3600 gives you an idea of the number of kilobytes needed per hour.

Please note that go1984 uses intelligent ring storage management to contribute significantly to efficient memory management. In many cases, it makes sense in any case to use motion-triggered recording, which reduces memory requirements substantially.

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8.2.2 Memory management

go1984 includes efficient ring storage. This enables you to optimize available hard-drive space allocation to the cameras, thereby ensuring that there is always enough memory space available for new recordings.

go1984 is able to delete the oldest recordings automatically after the allotted memory has been used up. You can also select an individual recording directory by clicking on the folder icon in the "Storage" tab under "Recording directory".

Note:

In Service mode (Enterprise or Ultimate Edition), you should always use UNC paths for network drives (NAS) in the form \\server\share\file_path, and run the service under a user account with relevant access rights to the NAS.
You cannot specifically assign any write permissions on the NAS to the system account as a running default account for the service.

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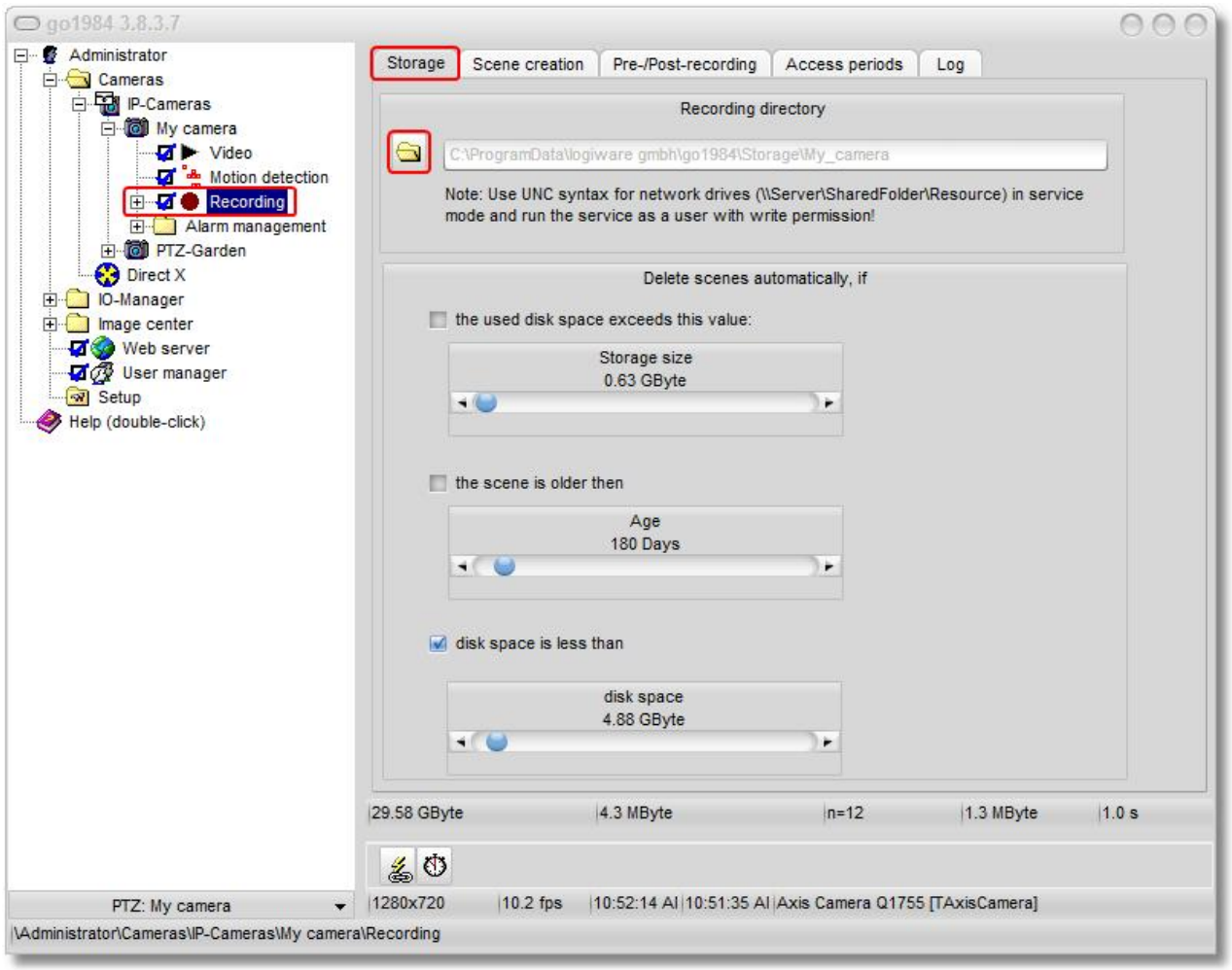
The following criteria specifically apply for automatically deleting scenes. If more than one criterion is relevant, the first criterion to be met will apply in each case:

the used disk space exceeds this value:	in this case, you can allocate each camera a disk space quota. When this option is activated, the oldest scenes are automatically deleted when the quota is exceeded.
the scene is older than:	when this option is activated the scenes for each camera are automatically deleted when the scene is older than the duration specified in days.
disk space is less than:	the oldest scenes are automatically deleted when a quota for the remainder of the disk space is exceeded. This value applies across all the cameras which are recording on the same partition/hard drive and if changed, it is automatically set for all the cameras on this partition/hard drive.



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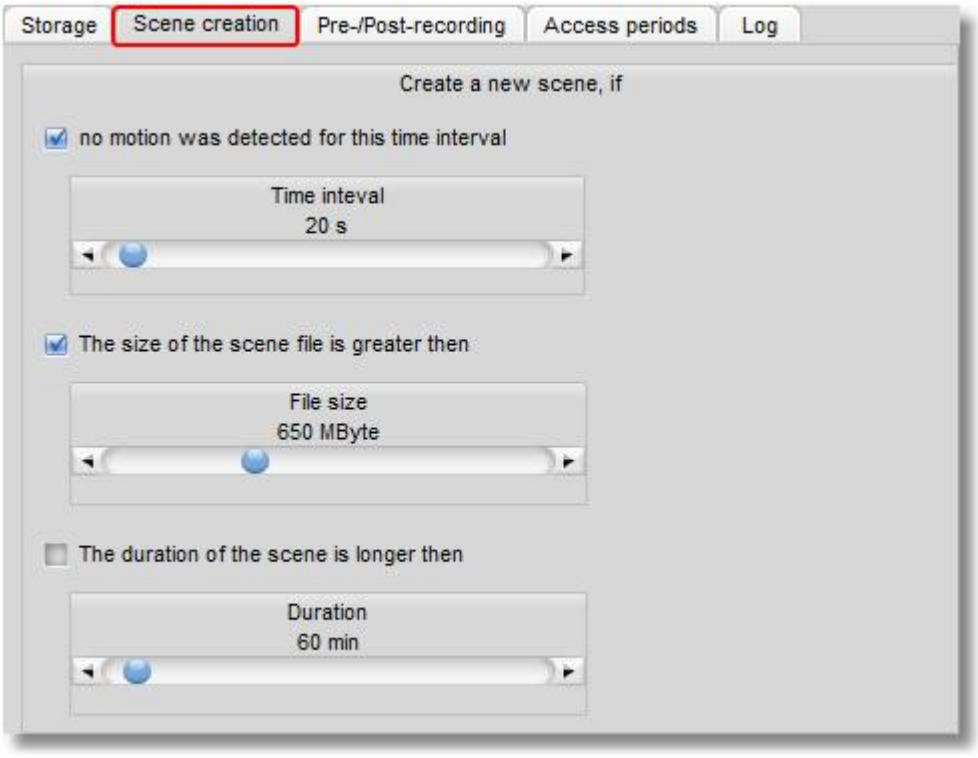
8.2.3 Scene generation

go1984 can aggregate recordings made during a certain interval to so-called scenes. This makes it much easier to find them later. The concept used is quite simple. Any scene that has already begun will be continued if less time than defined in the field "Time interval" has passed. If more time has passed, a new scene is generated. You can also define that a new scene should be generated as soon as the scene file becomes larger than the value entered into the field "File size" or if the current scene is longer than the value entered into the field "Duration".

The following criteria specifically apply for generating scenes. Once again, if more than one criterion is relevant, the first criterion to be met is decisive:

no motion was detected for this time interval:	if the time between two recordings triggered by motion detection is less than specified here, the scene already begun is continued. But if this time is exceeded a new scene is generated. The same applies if the recording is triggered by a signal other than internal motion detection (e.g. by a camera's digital_input signal or by an http event).
the size of the scene file is greater than:	a new scene is generated if the current scene exceeds the size specified here.
the duration of the scene is longer than:	if the scene duration specified here is exceeded a new scene is generated. If scenes are recorded by default only when there is a detected motion, the scene generated in this case will usually cover a longer period than specified under this point.



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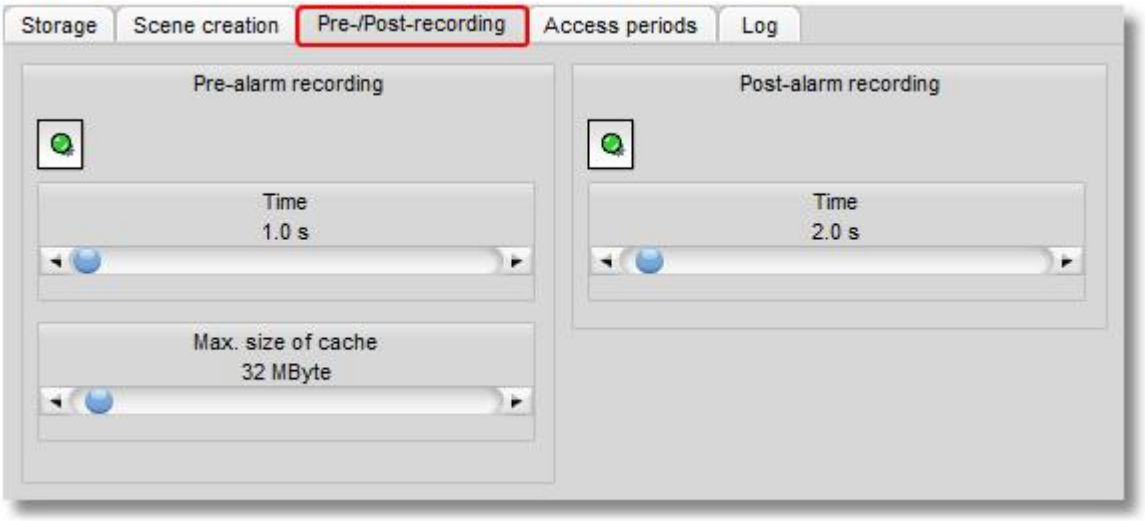
8.2.4 Pre-/Post alarm

Usually, motion-triggered recording begins the instant a motion has been detected. However, it is sometimes desirable to extend the recording by a few seconds before or after the event. To do so, simply enter the desired number of seconds into the appropriate fields and then activate the function using the corresponding button. go1984 uses your computer's random access memory (RAM) for this feature. In order to avoid too much memory being reserved, you have the option of restricting the size to a maximum value.



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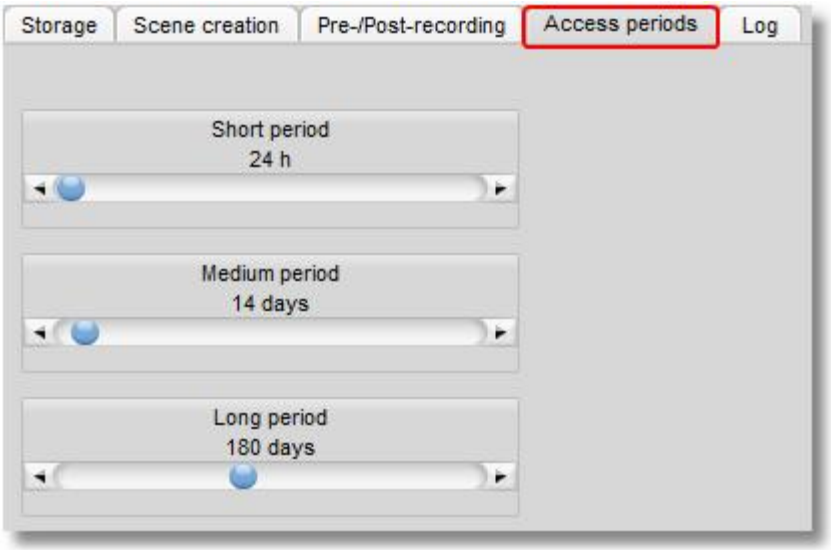
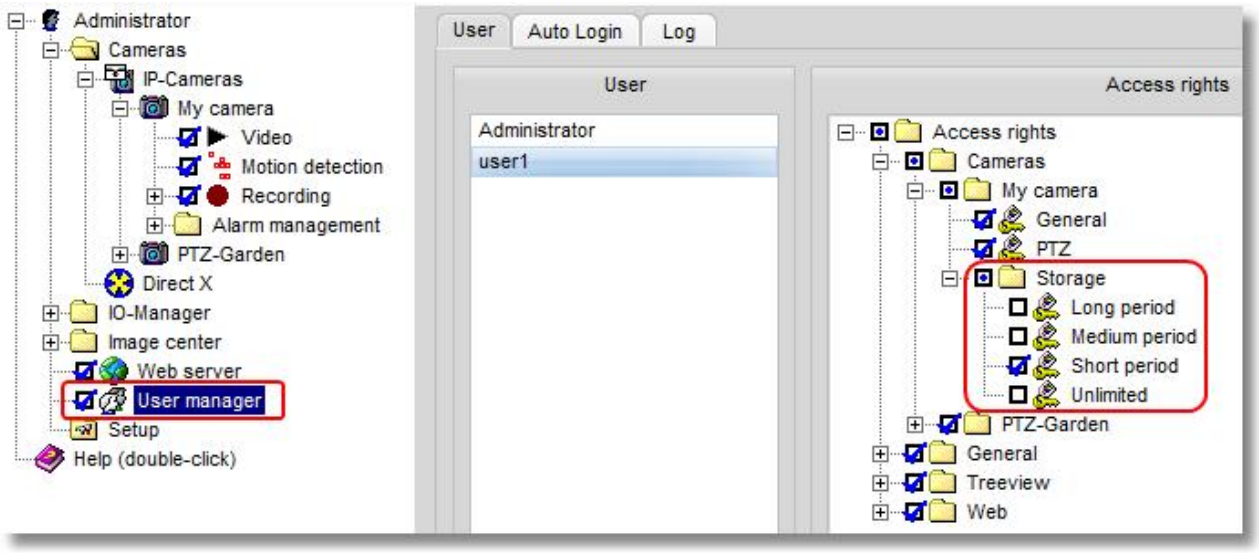
8.2.5 Access time period

Access to the recordings can be limited individually per user in the user management. Among other things, you can permit full access, no access, or access to a specified time period. This is where you can define the time periods valid for this camera.



Afterwards, simply select which time periods are available for the user in the user management.



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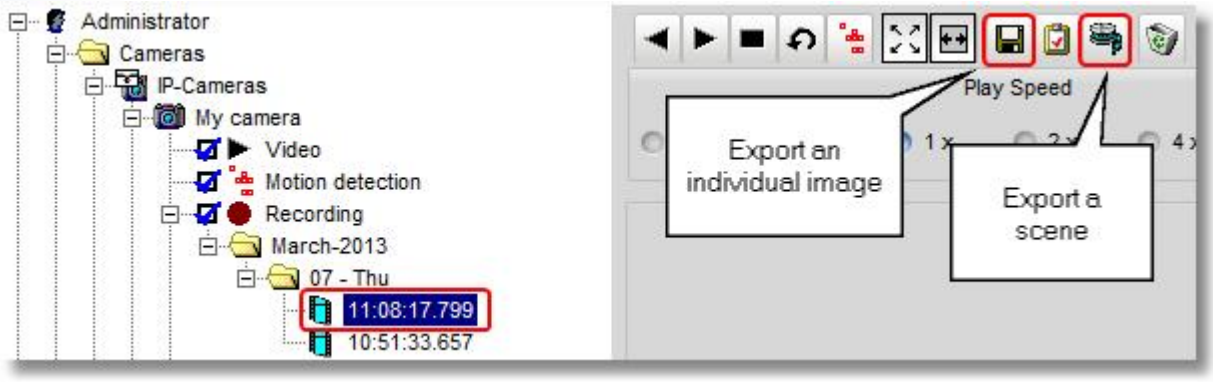
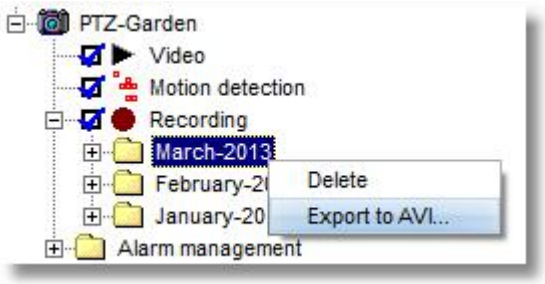
8.2.6 Export

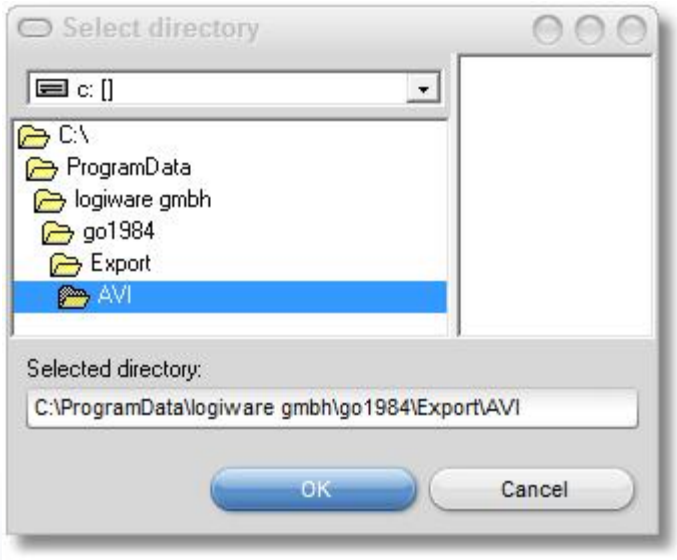
Recordings are saved in a proprietary format. However, the scenes recorded may be exported in AVI format or individual images in JPEG format.



If you want to export all the scenes for a particular day in AVI format, right-click the day you want and select the option "Export to AVI...". You can export all the scenes for a particular month in a similar way. Right-click the month you want and then the option "Export to AVI...".



Choose the folder that you want the AVI files to be saved in.



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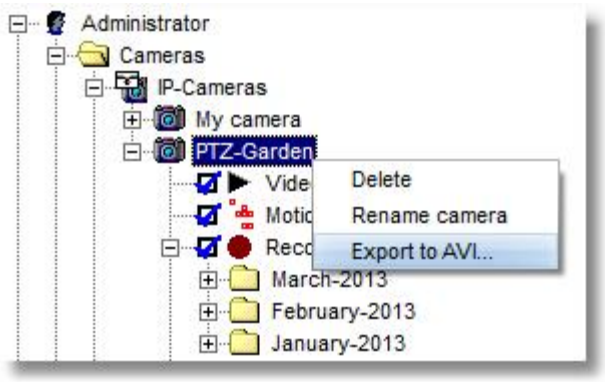
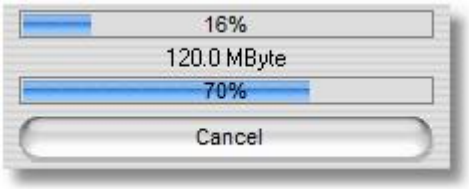
Right-click the name of the camera to export all the scenes from a particular camera. If you even want to export all the scenes from all the cameras, just right-click the "IP-Cameras" option.



You can now see in go1984 the progress of the AVI export process, both as a whole and on an individual scene basis, from the relevant bars.



You can now play these scene files with any of the standard media players.

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8.3 Motion detection

go1984 includes high-performance motion detection based on an optimized image difference process. When motion detection is triggered, the so-called "Motion" signal is activated for this camera. This signal can be used, for instance, to begin recording, to launch an FTP upload or to trigger an alarm.

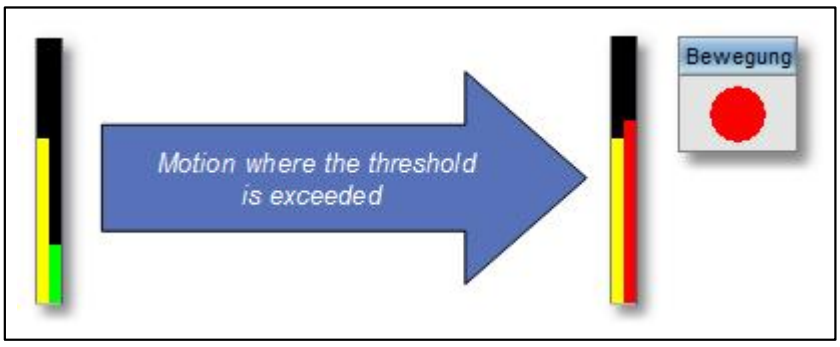
The image is split for this purpose into 8x8 pixel segments which are each analyzed for motion. This means that with a resolution of 640x480 pixels, for instance, 4,800 segments must be analyzed for each individual image.

The threshold specifies what the minimum percentage of segments needs to be where motion is detected in relation to the whole image so that a motion is indicated. For instance, in the case of a VGA resolution of 640x480 pixels with a threshold of 1.5%, the figure will be 72 segments.

You should reduce the threshold if you want the motion detection facility to be more sensitive.

Motion areas are highlighted in the live image with red squares. As soon as the actual value exceeds the specified threshold, the motion signal is triggered. The specified threshold (yellow) and current actual value (green or red) are graphically represented by two colored bars in the program to make adjustments easier for you. The actual value bar changes from green to red if a motion has been detected. The circle in the "Motion" field also turns red.

You'll be shown the live image from the camera, with motion areas being marked by red rectangles. As soon as the actual value surpasses the specified limit value, the motion signal is triggered. The specified limit value (yellow) and the current actual value (green or red) are graphically represented by two colored bars in the program in order to make adjustment easier for you. The actual value bar changes from green to red if a motion has been detected. The circle in the "Motion" field also lights up in red.



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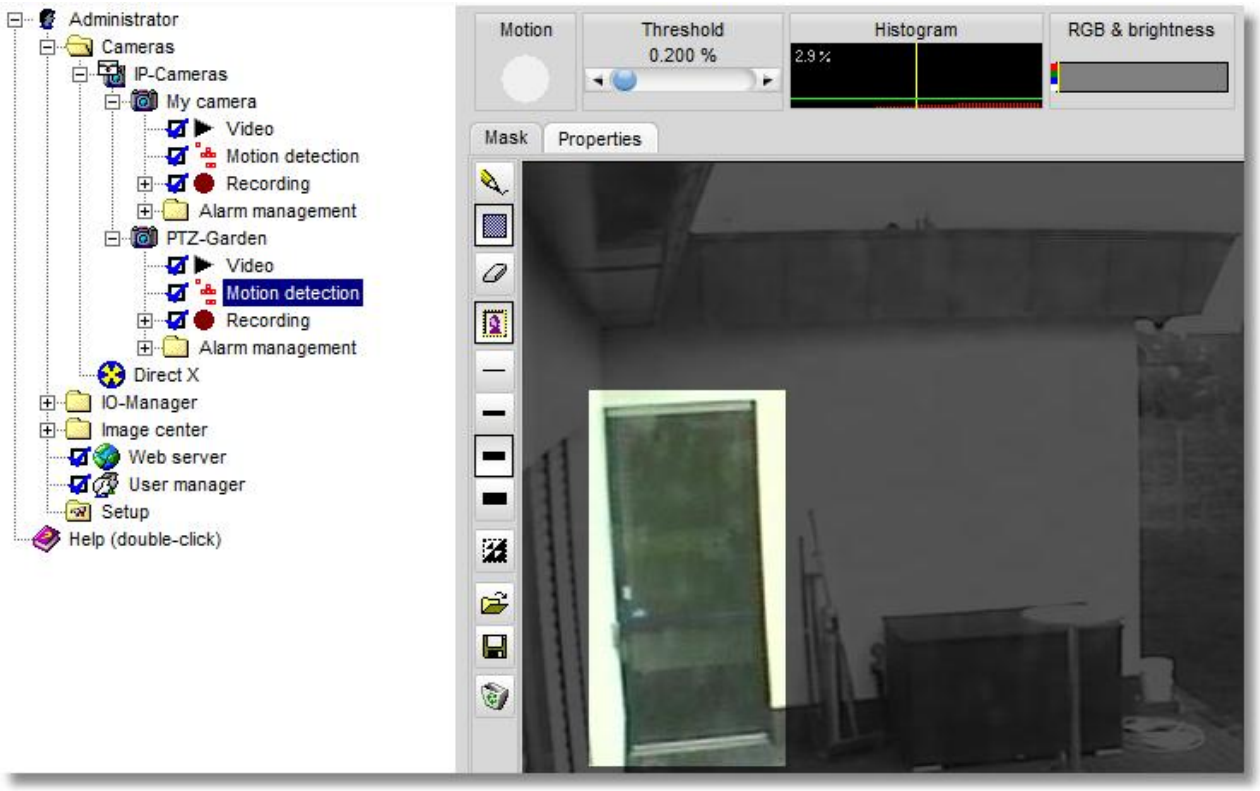
8.3.1 Masking

It often makes sense to exclude certain areas of the camera image from motion detection. In order to do so, you can draw any kind of mask over the image. Various tools are available for doing so. The mask is displayed on the screen transparently for control purposes. Grayed out areas will be excluded from now on.



Tools for drawing masks:

	Pen for freehand drawing of masks
	Rectangle tool for drawing masks
	Eraser for deleting masks
	Show or hide camera image
	Line width 1
	Line width 2
	Line width 3
	Line width 4
	Invert mask
	Load mask
	Save mask
	Delete mask

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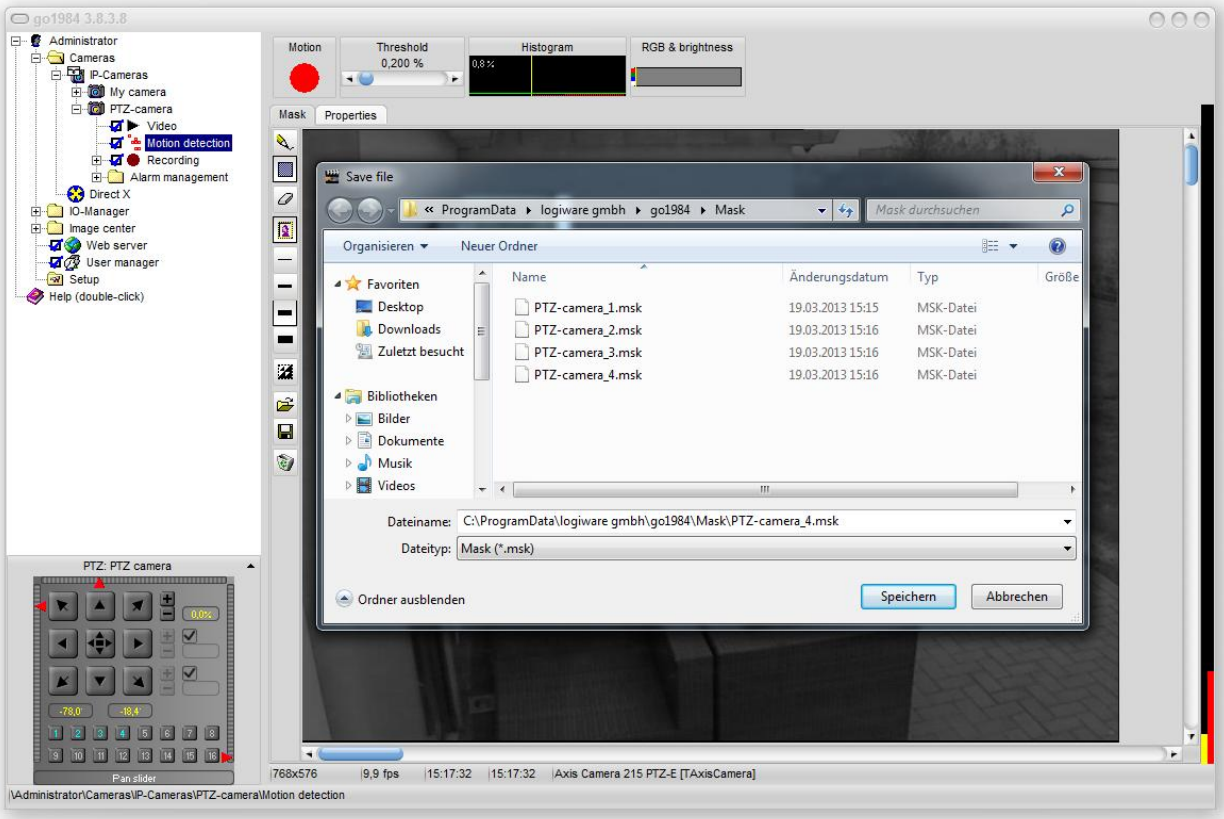
8.3.2 Masking with PTZ cameras

Use a PTZ camera that allows you to set preset positions in go1984, so that you can set a separate mask for each position. To do this, the mask's file name must conform to the following syntax when saving the mask:

%cameraname%_N.msk with N=number of the preset position (1-16), e.g. "PTZ-camera_1.msk":



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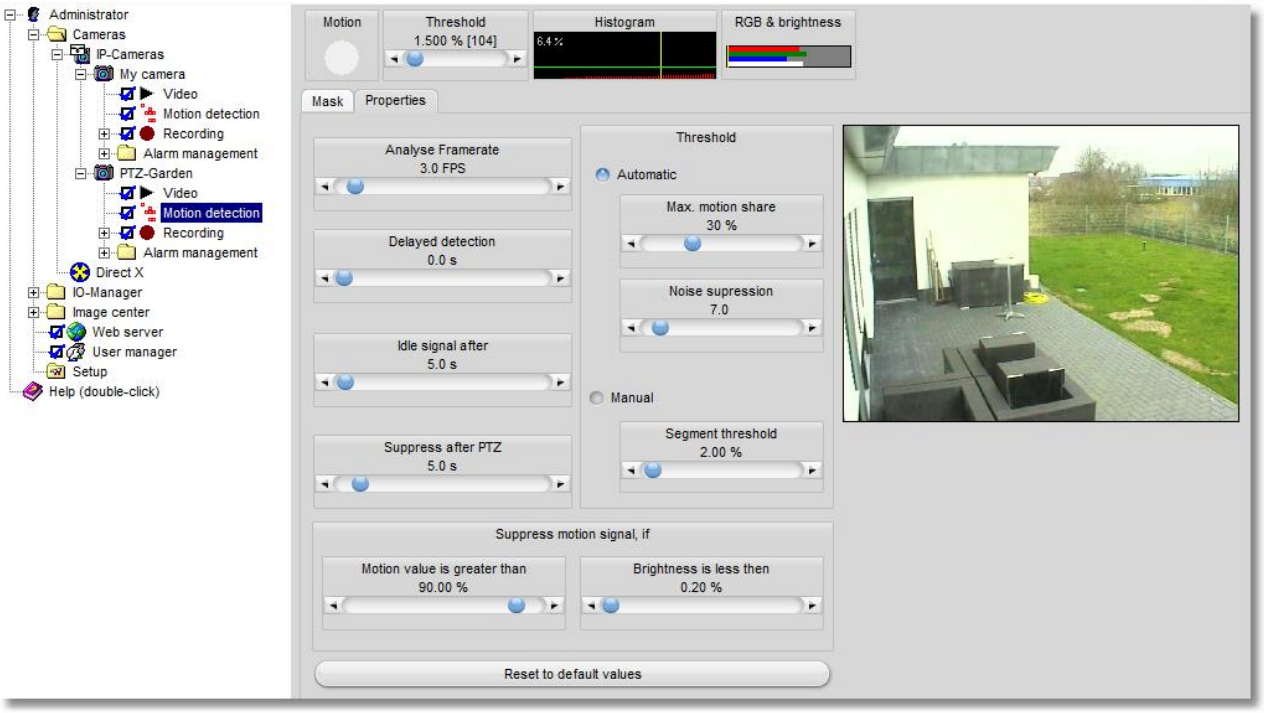
8.3.3 Fine-tuning

For normal purposes, motion detection settings do not need to be adjusted more than described above. If the default values don't work perfectly for your needs, you'll find additional setup options on the "Properties" tab.



With the aim of providing a comprehensive description, this section will first of all take a look at the basis function of motion detection.

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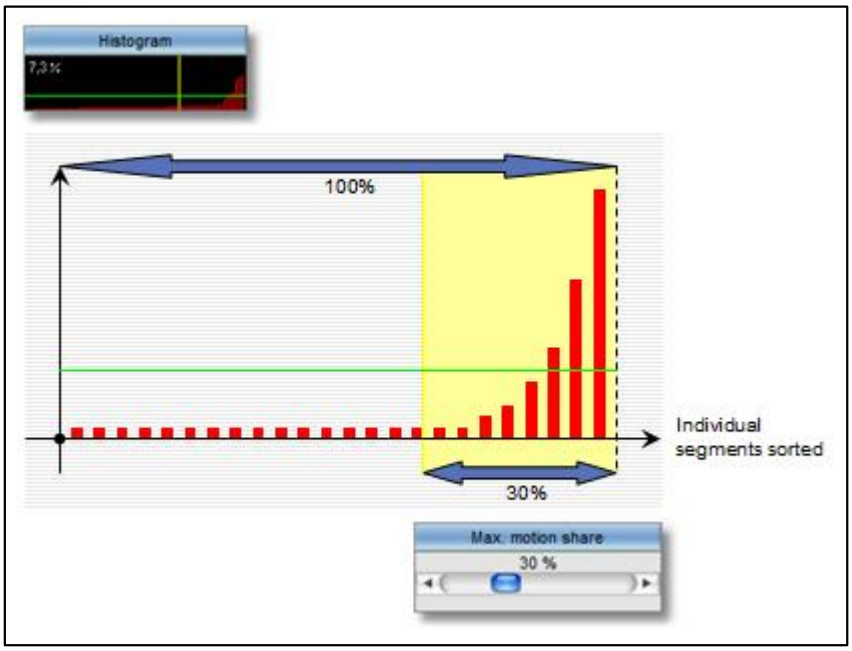
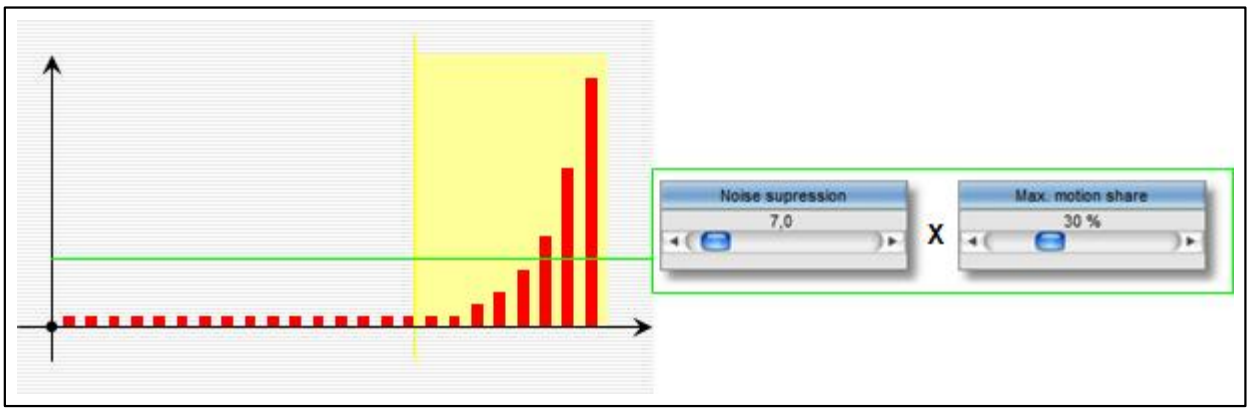
The 8x8 pixel segments that were analyzed, illustrated by the bar chart displayed, are sorted in ascending order according to any change detected in the image. The maximum motion share sets the reference segment within the sorted segments, which is the basis for further calculations (in this case the segment is at the "30%" position.



The segment threshold (the green line in the bar chart) is now calculated based on the "Noise suppression" factors and the motion share in the reference segment.



If the motion value for individual segments is now greater than the segment threshold (green line) calculated automatically for the image being analyzed, the detected motion is highlighted in the relevant segment (red rectangle in the live image). The segment threshold calculated for the current image is displayed as information in the top left of the bar chart.

A reduction in the noise suppression value makes the motion detection feature more sensitive. Increasing the value for the maximum motion share also makes it more sensitive. The higher the value selected for the maximum motion share, the more strongly the motion detection function responds to slight changes in the image.

Since the segment threshold is recalculated for every image analyzed, the motion detection feature adapts automatically to new situations, thereby reducing as far as possible the chance of false alarms.

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You will also find the following set-up options:

Analyse Framerate	Motion detection is highly processor-intensive due to the image decompression required. To achieve a better performance, you can reduce the number of images being checked per second (default value: 3 fps).
Delayed detection	delay in seconds until the motion signal is triggered. This may, for instance, be a sensible option for an e-mail alert in order to send a relevant image.
Idle signal after	duration in seconds until the idle signal is triggered. For further information, refer to the "Event management" section.
Suppress after PTZ	If PTZ cameras are moved, the change in the image resulting from this might sometimes be detected as a movement. You can use this slider to prevent motion detection from being triggered by suppressing the signal for the specified duration.
Motion value is greater than	This control enables you to avoid motion detection being triggered by rapid, extreme lighting changes such as the interior lighting being switched on or auto-iris adjustment by cameras etc.
Brightness is less than	Some cameras tend to produce noisy pictures under bad lighting conditions, which can lead to motion detection being triggered. This control enables you to turn off motion detection for images generated at less than the specified basic brightness.
Threshold: Automatic	go1984 always tries to provide the best settings for the segment threshold independently.
Threshold: Manual	analysis of each individual segment without the above-mentioned extended, adaptively operating settings being taken into consideration for the segment threshold. This option is recommended only in exceptional cases.
Restore default settings	Reset all the motion detection settings to the preset default values that produce a reliable result in most cases.

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8.4 Http event

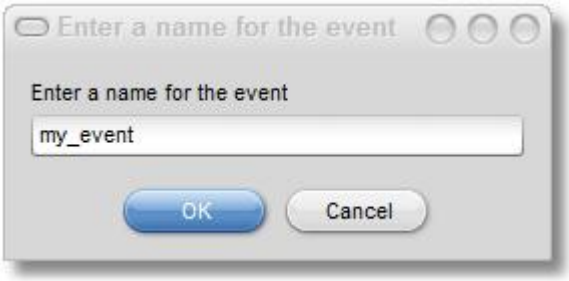
Many of the current network cameras or even external network-enabled motion detectors nowadays offer integrated motion detection and the facility to notify third-party systems of any movement detected via an http message.

In the Enterprise and Ultimate edition of go1984 the motion detection facility of these devices can be used via the http event. This may be sensible if the external device offers extended functionality compared to go1984 motion detection (e.g. triggering an alarm when there is a movement in a specified direction).

You can also use Http events to control go1984 functions or also outputs (relays) remotely via the client solutions for PC, Mac or mobile terminals running under iOS, Android or Windows Phone.

You will find this function under the IO-Manager. You can add a new event by clicking on the relevant button.

Enter the name you want to give the event.



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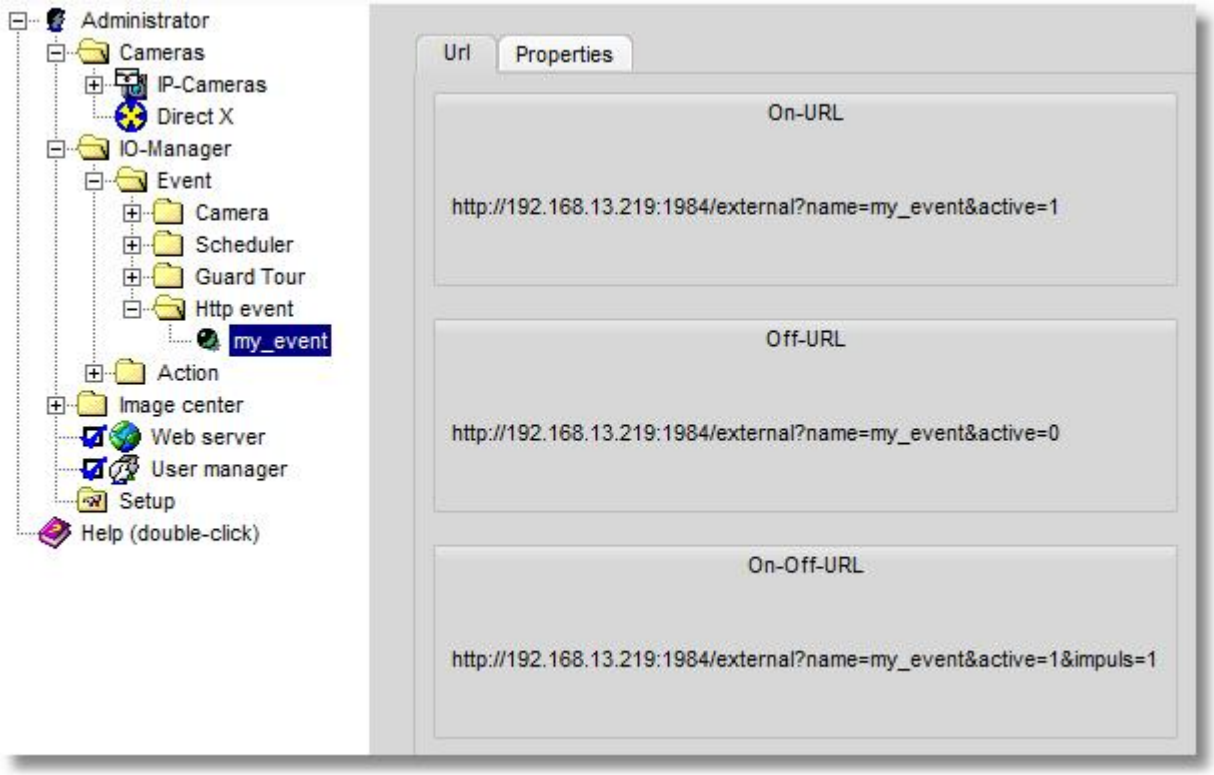
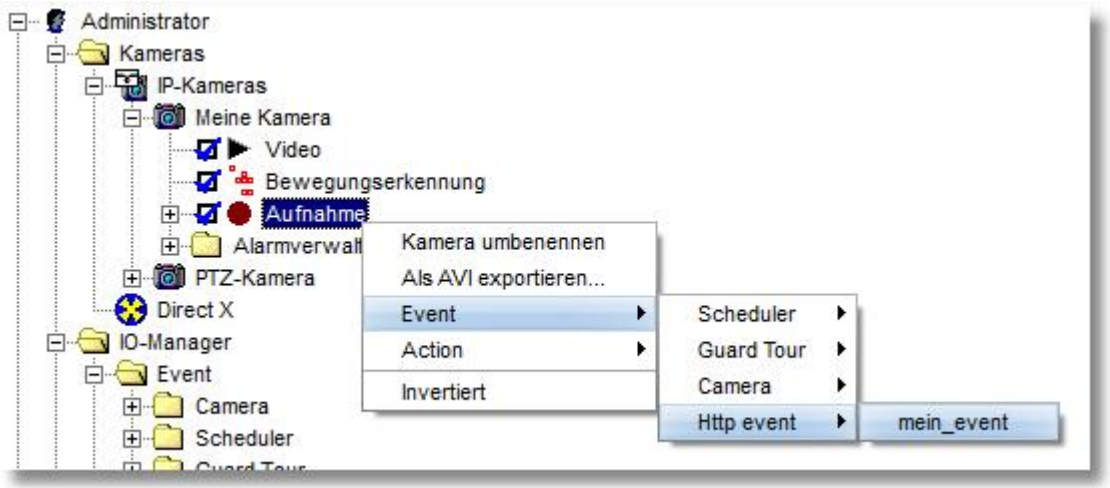
The new signal is now available and can be activated or deactivated via the shown URLs.



If you want in future to "control remotely" a go1984 function such as the recording from a camera, via one of the client solutions, link the event to the function you want in the next step by right-clicking the mouse.



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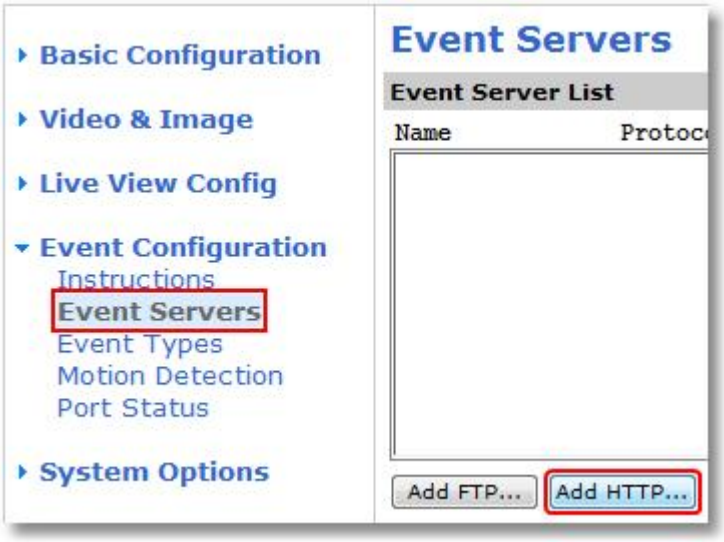
Similarly, the output of an IP camera or the logiware IO stick could be controlled after establishing the relevant link via the Http event.

If the Http event is to be controlled by an external device, the other settings are applied directly via the web interface of the camera or motion sensor. Take as an example the settings for an axis camera shown below.

First of all, the go1984 server is created as an "event server".



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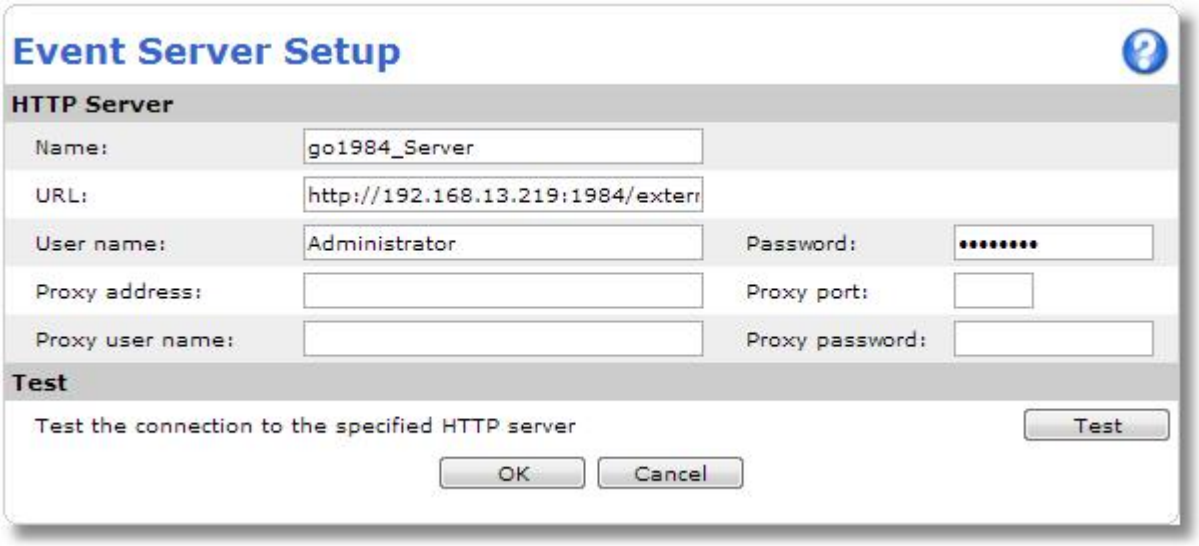
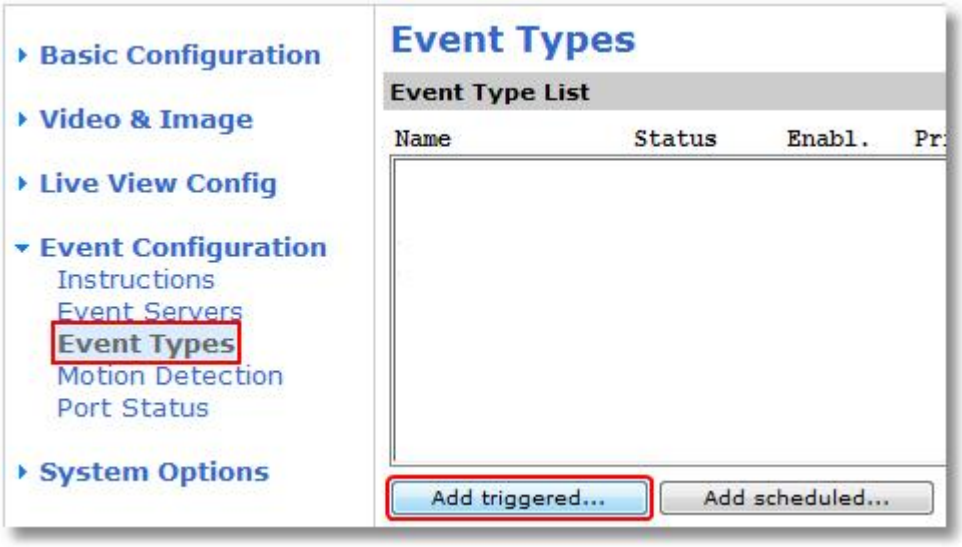
You can check the connection directly using the "Test" button (URL: *http://IP:Port/external*).



Events can now be defined accordingly at the start and end of the movement:



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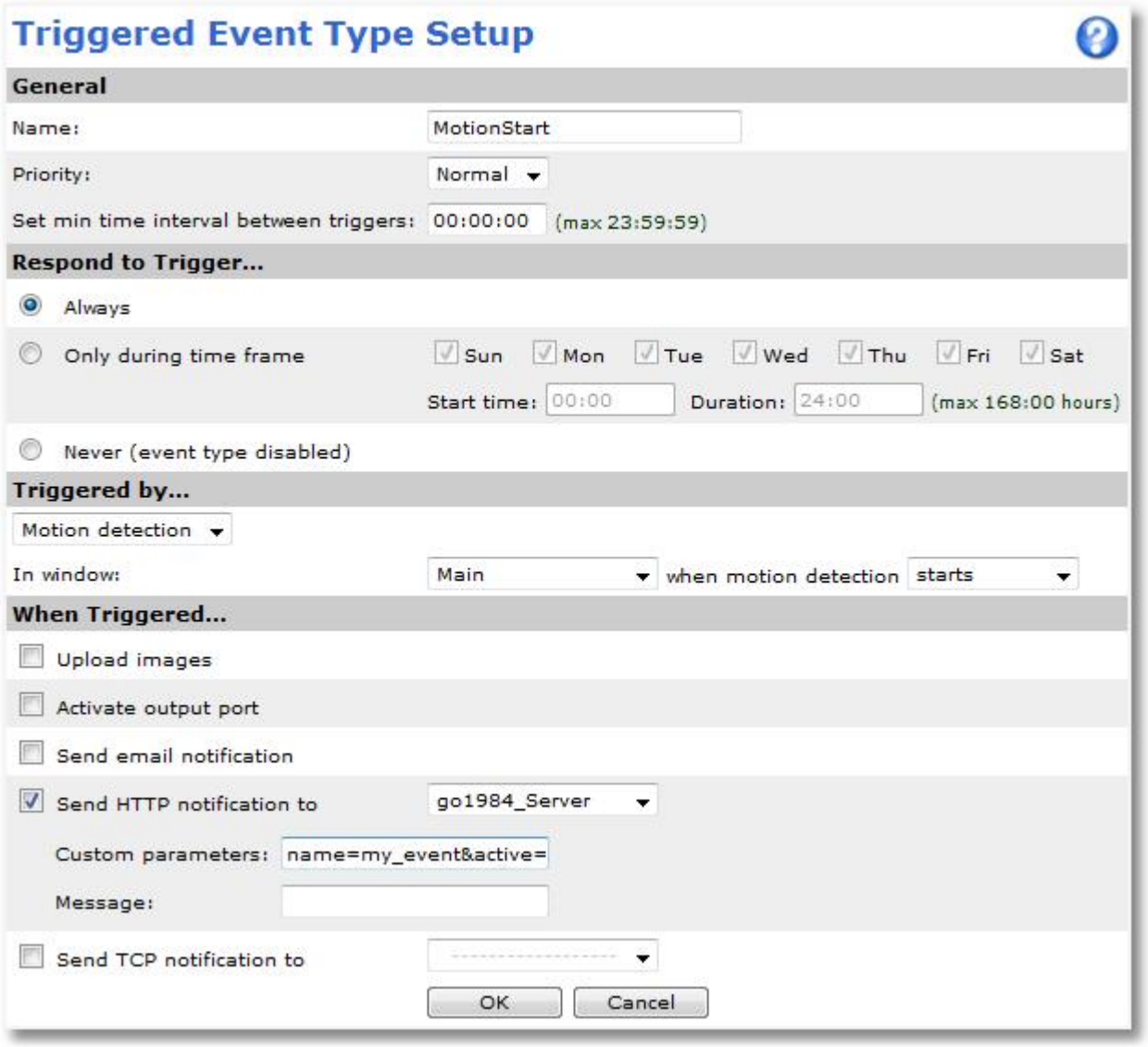
Enter the "On-URL" parameter under "User-defined parameters" for the event at the start of the motion: *name=my_event&active=1*



Then add a "MotionEnd" event which will be triggered at the end of the motion. Enter the following parameters for this event: *name=my_event&active=0*

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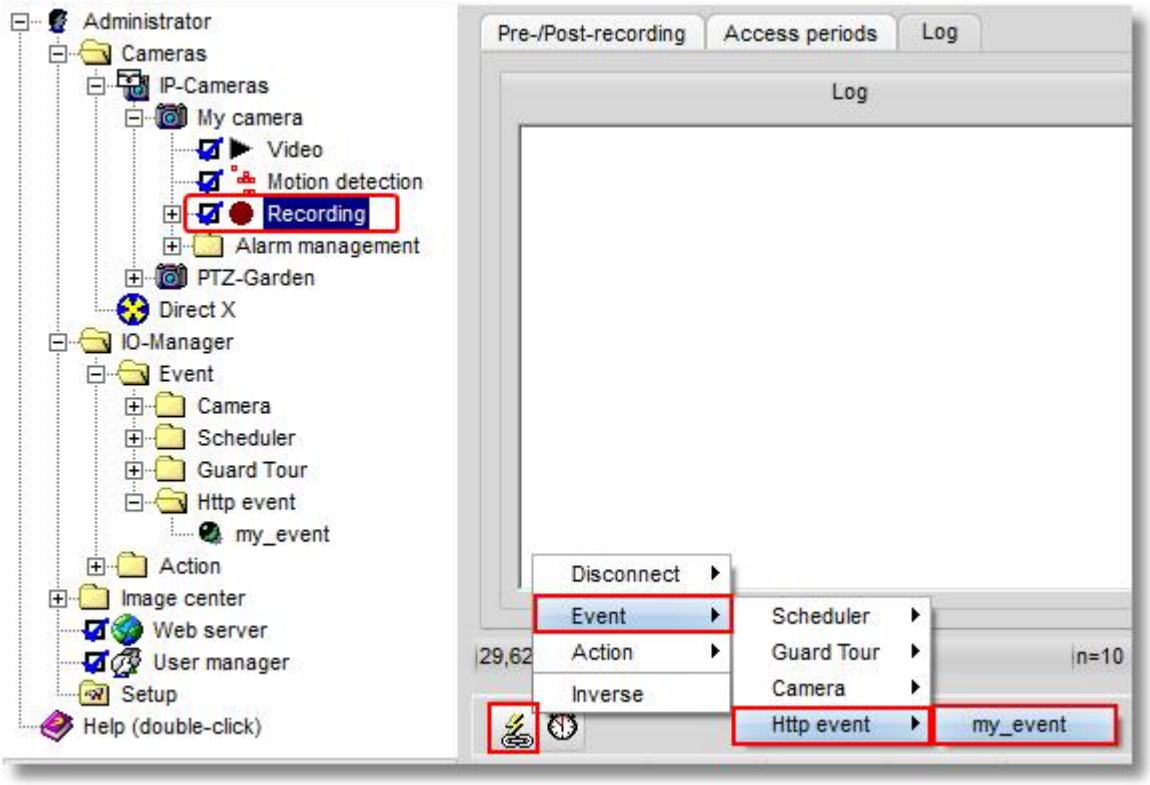
Then you must link the recording in go1984, which is linked by default to go1984 motion detection, to the http event.



If you are not going to continue using the go1984 motion detection function any more or as an alarm function, for instance, you can now deactivate it.

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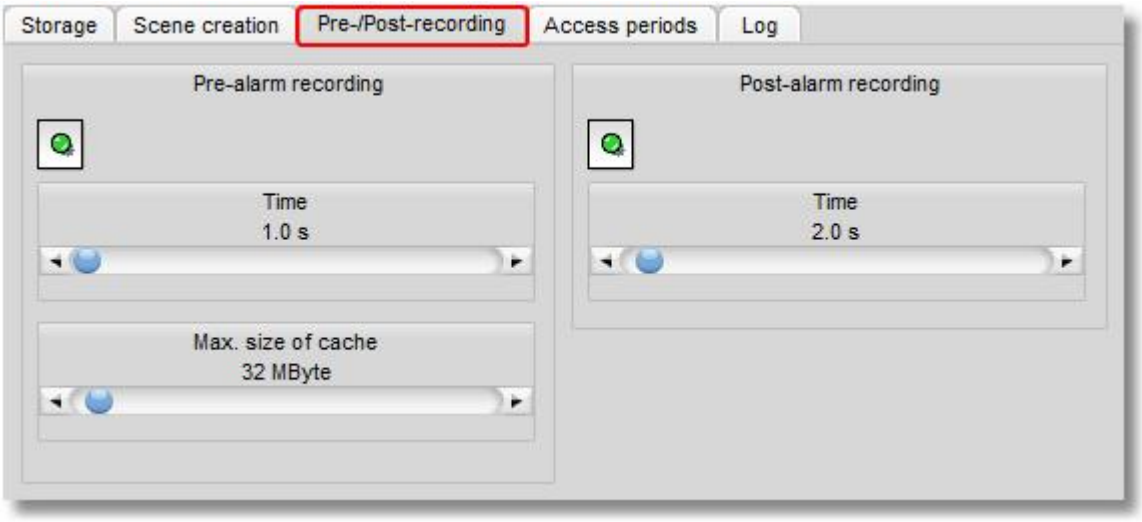
Note:

Sometimes you need to still change the values for the pre- and post-alarm so that the recorded scenes cover the overall period you want.



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8.5 Notification

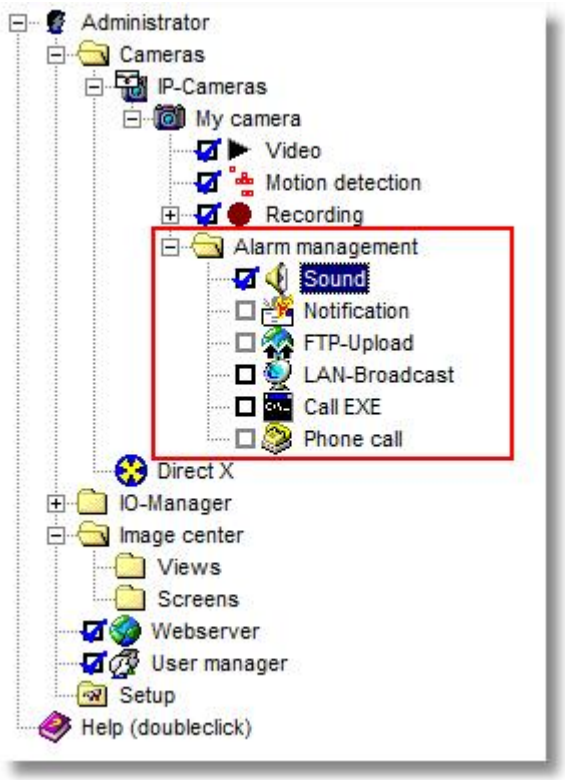
go1984 can use various channels to notify you in case of an alarm. They are:

- Playing an audio file via a sound card
- Sending an e-mail with or without an image attached
- Uploading one or several images via FTP
- Launching an external program
- Calling a telephone number and playing an audio file (ISDN card required)
- Sending a push message to mobile clients
- Sending an image to the go1984 client via UDP Broadcast

Note:

Every type of alarm must be activated first bar push notification. Clicking on the options field of the respective option switches on the corresponding function.

If the desired option is grayed out, there are some settings that must be provided beforehand because the option makes no sense without them. For instance, the option "Telephone call" makes no sense if a telephone number has not been provided.



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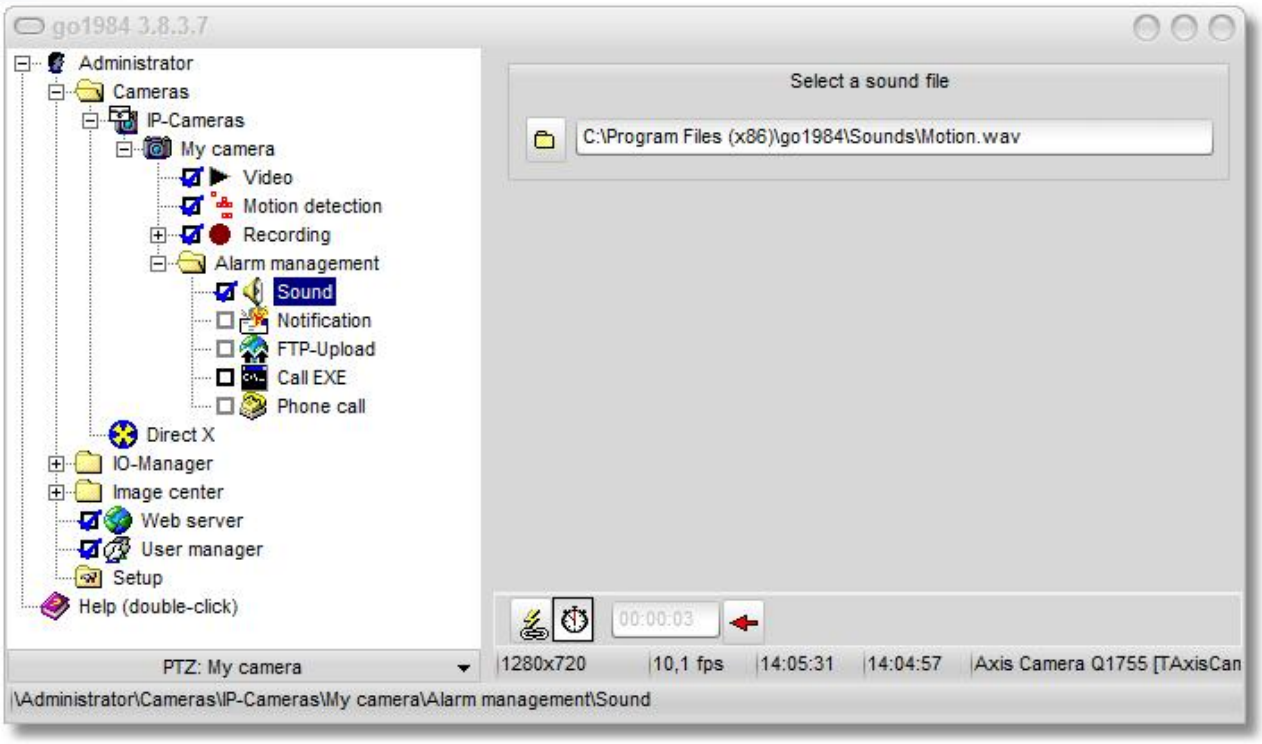
8.5.1 Sound

go1984 can play a freely selectable audio file in .wav format via your sound card in case of a notification. Simply choose the corresponding file using the dialog.



To prevent too many notifications from being sent, you can set a rest period. This means that only when at least the specified time has elapsed since the last playback can the sound file be played again.

Please also refer to the general notes on activating notification functions in the section on notifications.

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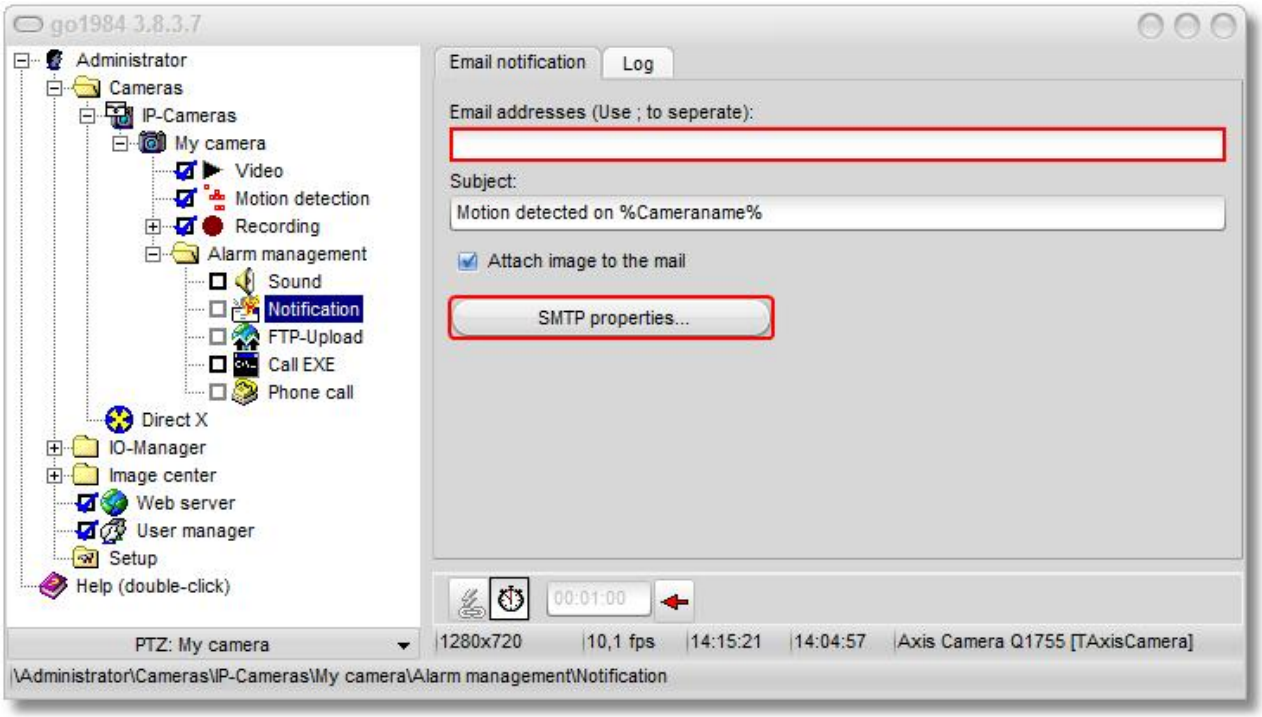
8.5.2 E-mail

In order to enable e-mail sending from go1984, a so-called SMTP server first needs to be specified. If this has already been done, you can continue here directly.

Select the entry "Notification" in the go1984 explorer. You can now enter one or several recipients (separated by semicolons) into the field E-mail address. Adjust the subject line if you wish. The variable "%cameraname%" is automatically replaced by the name of the camera triggering the alarm when an e-mail is sent.



Once again you have the option to set a rest period which must elapse between sending two e-mails, by clicking on the clock icon. Simply click on the clock icon and then set the rest period you want.

Please also refer to the general notes on activating notification functions in the section on notifications.

Note:

The Action button **is linked by default to the go1984 motion detection function. If you want to send a meaningful image as an attachment when a movement is detected, you must sometimes increase the "Delayed detection" value under "Motion detection" -> "Settings".**

The delayed detection will obviously have an impact on recordings too. But you can balance out this delay simply by increasing the pre-alarm value accordingly.

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8.5.3 FTP

If you wish the images from a camera to be sent to an FTP server in addition to being stored locally, complete the following dialog.

First, enter the login data for your FTP server:

FTP server	Domain name or IP of your FTP server, e.g. ftp.online.com
Port	FTP port, almost always "21"
FTP user ID	Username for logging on to the FTP server
FTP password	Password for logging on to the FTP server
FTP directory	FTP server subdirectory where you want the images to be saved
Passive mode	If your FTP server cannot be run in the active mode, select this option
Keep connection	After uploading an image, the connection to the FTP server is kept open. If you prefer the connection to be shut, deactivate this option.

You can also choose to resize images before saving them on the FTP server. Activate this option and define the new size of the image using the corresponding fields.

Finally, you can define under which names to save the file(s) on the FTP server:

Simple filename	The file name is the name you enter into the field
Datetime filename	The file name includes the time of day. The constant part of the file name has to be enclosed in quotation marks. Formatting is carried out according to the following key: yyyy Year mm Month dd Day hh Hour nn Minute ss Second zzz Millisecond
Rotating number filename	Enter the beginning of the file name into the field. A number is automatically added onto the end of the name; it is increased by one after each successful upload. After the counter reaches the defined value, it is reset to 1. Older images are then overwritten.
Upload as "*.tmp" and rename if finished	If you have problems uploading the files to your ftp server, you can have the images uploaded with the extension ".tmp" at first. After the upload has been successfully completed, the files are renamed to the "real" file name.

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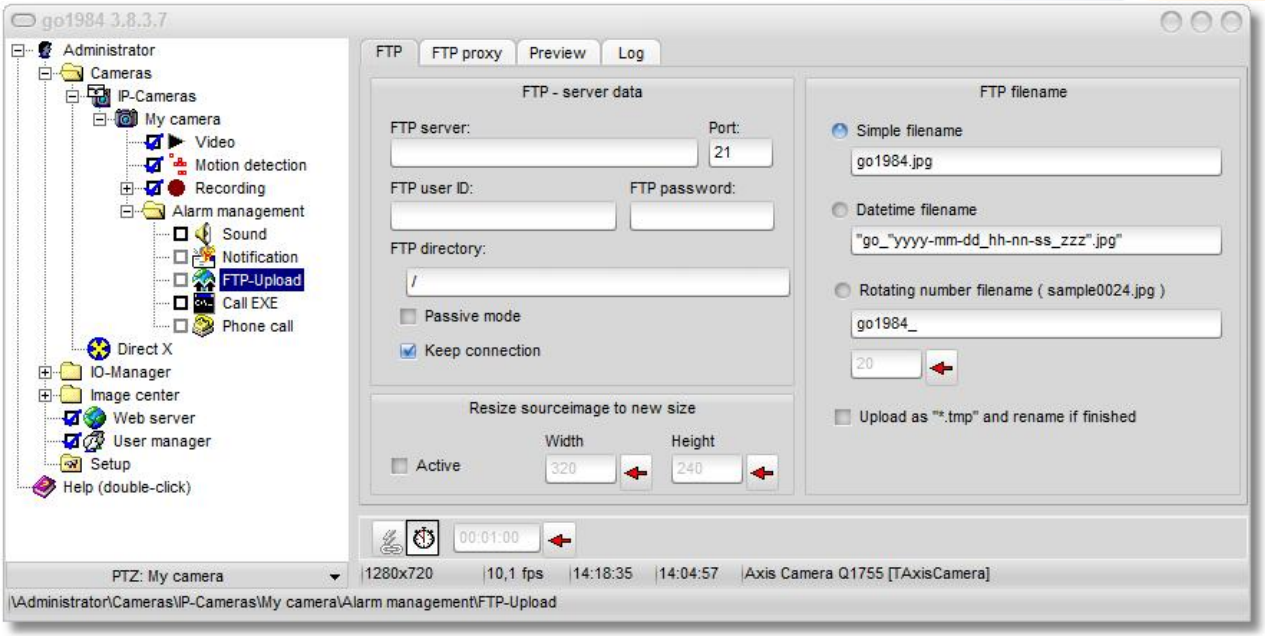

The Action button is linked by default to the "NewImage" signal (see also "Event management" section). This means that the FTP upload is activated every time a new camera image is generated. In this case too you have the option to set a rest period by clicking on the clock icon. This means that only when the period specified between two transmissions to your FTP server has elapsed can a new upload operation be launched. This then allows you to have the FTP upload operation simply carried out at a set interval.

Please also refer to the general notes on activating notification functions in the section on notifications.

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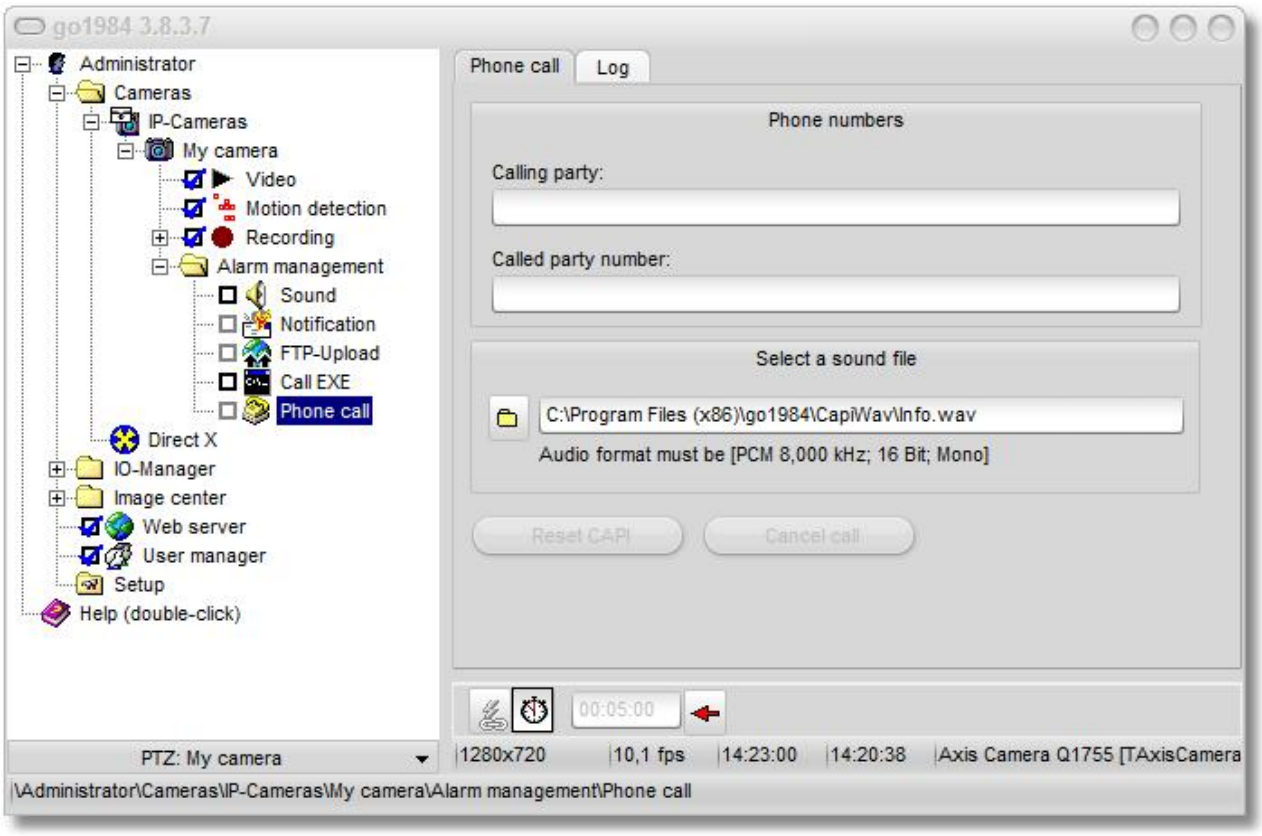
8.5.4 ISDN

In case of an alarm, go1984 can make a telephone call using an existing ISDN card. Once the connection is set up, the program plays a freely definable audio file to the person being called. Please enter the telephone numbers using only numeric digits. Other signs or spaces can disrupt the function.

You can record your own audio files using the Windows "Audiorecorder". Please make sure you've set the right format:

- PCM 8,000kHz; 16 Bit; Mono



In order to avoid being notified too often by calls, you can define a rest time that has to elapse between calls. To do so, click on the clock icon and set the desired rest time on it.

Please also refer to the general notes on activating notification functions in the section on notifications.

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8.5.5 Push notification

If a movement is detected, you can have what is known as a "push message" sent to client devices connected with the relevant client application, such as "iGo1984 HD" on an iPhone or iPad, for instance.

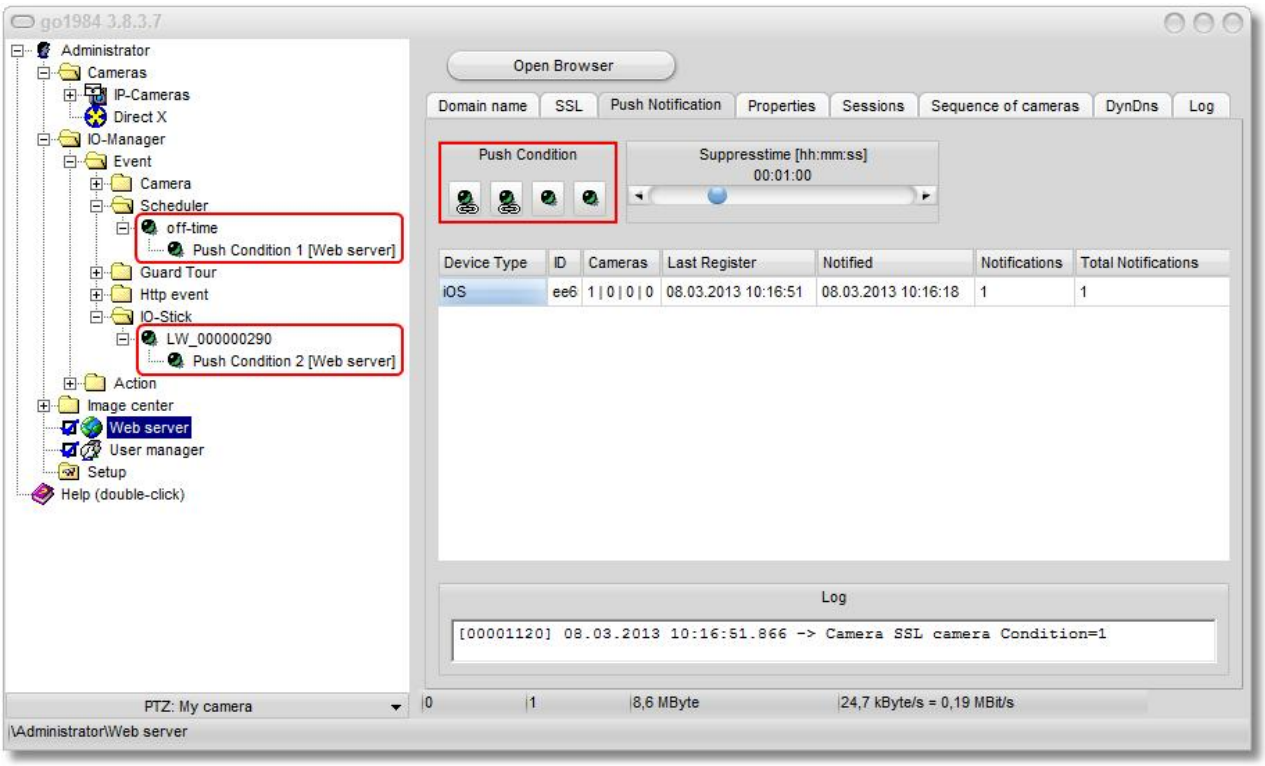
Note:

You need to have an active update service for push notification, which means that the update authorization for go1984 must not be expired.

First select the "Web server" option in the go1984 Explorer and then the "Push notification" tab.

Activate at least one of the available four push conditions via the relevant button if you want permanent (24 h) notification. The push notification is always linked to motion detection for every selectable condition.

In general, you will only want a push notification at specified times. With this in mind, right-click to link a pre-defined scheduler to the push condition you want (in this case, "Push Condition 1"). You can also activate/deactivate a push condition via a suitable digital input (e.g. via a logiware IO stick) or using, for instance, key switches (in this case, "Push Condition 2"):



You can also use the relevant slider to set signal suppression. This means that there is no further notification for the set period after the push notification is triggered. This can therefore prevent a single incident resulting in multiple notifications.

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In the mobile application you should establish separately for each camera whether you want a push notification and, if you do, under which push conditions "1" – "4". We have, therefore, in this example the push notification for cameras #1 and #2 being time-related (only outside opening hours), whereas the push notification for cameras #3 and #4 is activated via key switches. No notification is required for cameras #5 and # 6.

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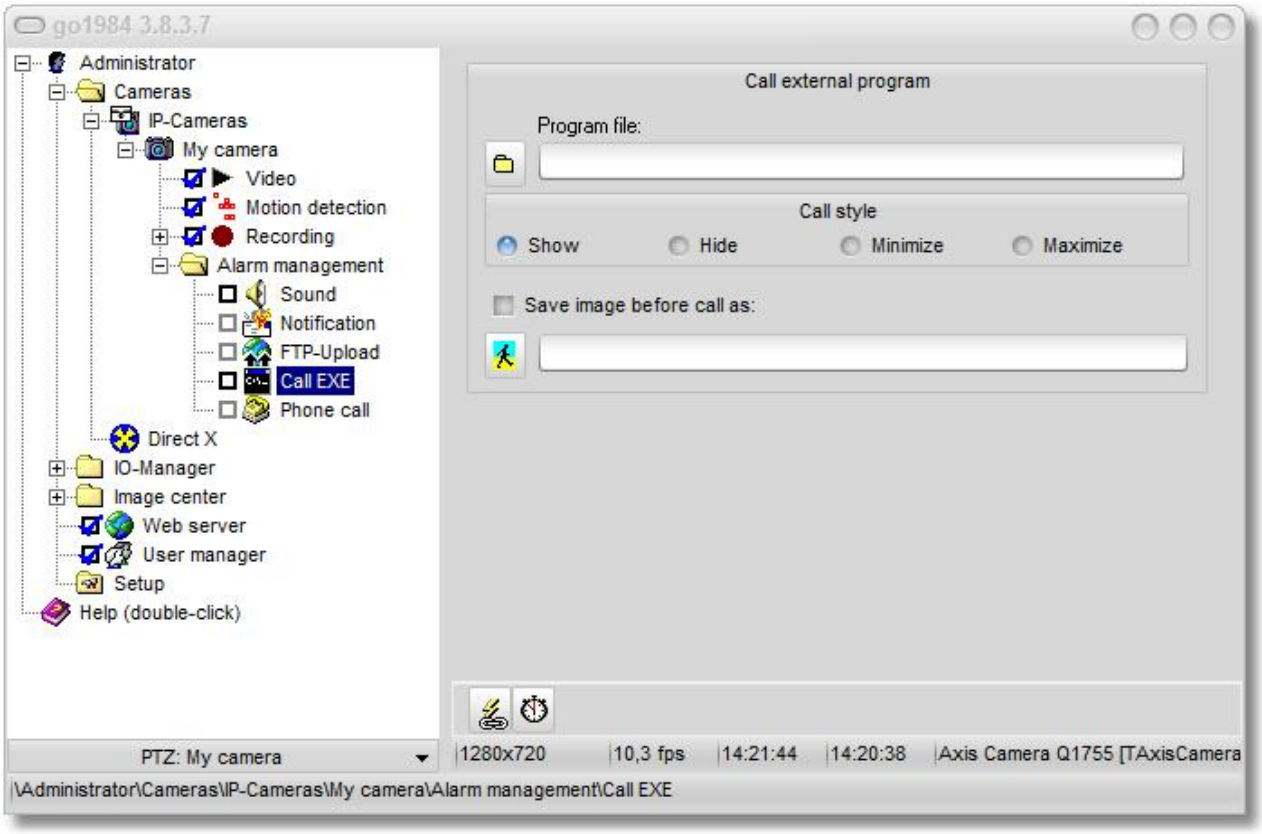
8.5.6 External program

go1984 offers you the option of launching an external program in case of a notification. In this case, the image that triggered the notification can first be saved on the hard-drive. In this way, special tasks can be carried out for which go1984 itself is not suitable.

To set up the feature, select the program you want to launch and the launch type. You can choose to have the image that triggered the notification saved on the hard-drive first, and can freely define the drive and the directory for this purpose.



Here, too, you have the option of defining a rest time by clicking on the clock symbol. A program is only launched if the defined time has elapsed between two program launches.

Please also refer to the general notes on activating notification functions in the section on notifications.

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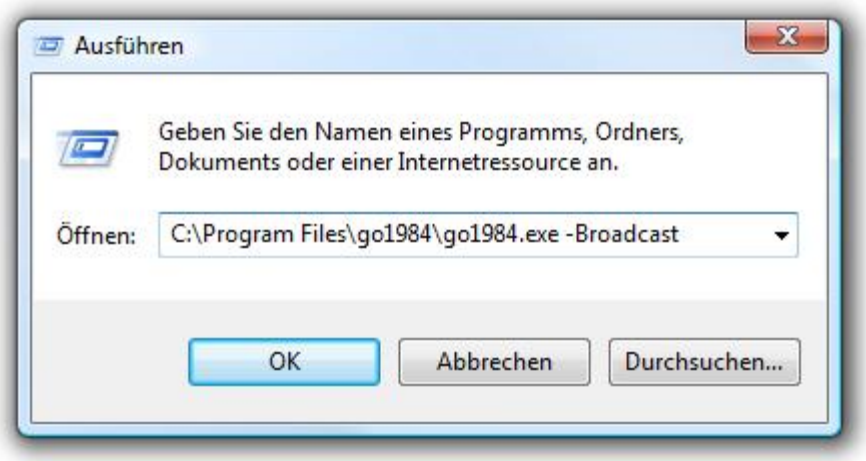
8.5.7 LAN-Broadcast

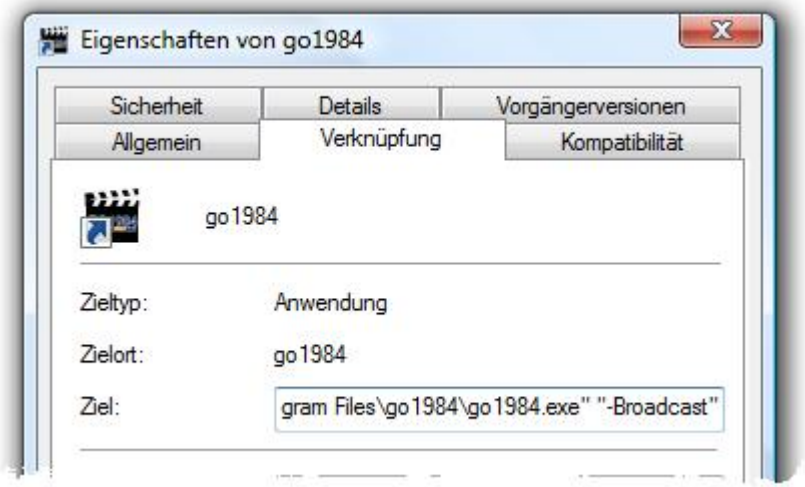
In the event of an alarm, go1984 can notify any users on the LAN via UDP Broadcast. If the go1984 client has been installed and is active, users will be notified about the movement detected on a camera via popup and/or an acoustic signal.

From go1984 version 3.8.0.6 onward, the LAN broadcast function is no longer available as a default function in go1984 as, in the meantime, the go1984 Desktop Client application already covers the broadcast client's functions.
If you want to continue using the LAN broadcast client, this function can be made available again via the "Broadcast" switch.

Launch go1984 via the command line with the specified parameter:



You may, of course, also set the switch permanently in the go1984 program link.



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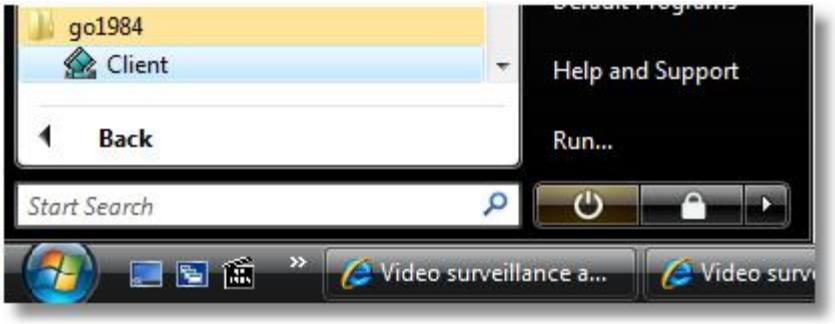
Note:

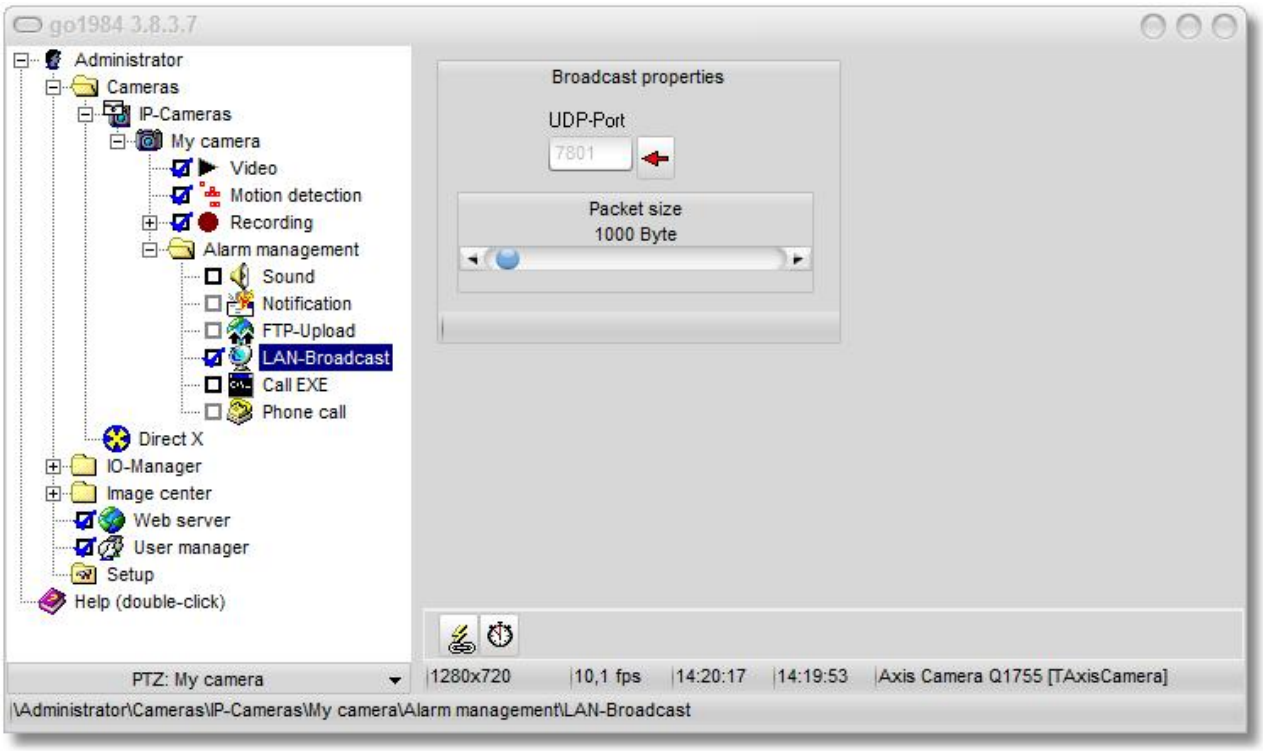
The go1984 client should not be confused with the go1984 desktop client. Unlike the latter, it is not suitable for permanent live monitoring via one or more cameras or for recording images from them.

You can install the go1984 client using the relevant Setup file, which is available at http://www.go1984.com in the download area.

The broadcast client can then be launched via the Windows Start menu.



Now activate LAN Broadcast for the cameras you want.



You also again have the option here to set a rest period by clicking on the clock icon. This means that only when at least the specified period between two broadcasts has elapsed can a new notification be sent.

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Please also refer to the general notes on activating notification functions in the section on notifications. If a motion is detected you will be informed via popup from now on. The last images transmitted can be replayed by clicking on the "Play" button.

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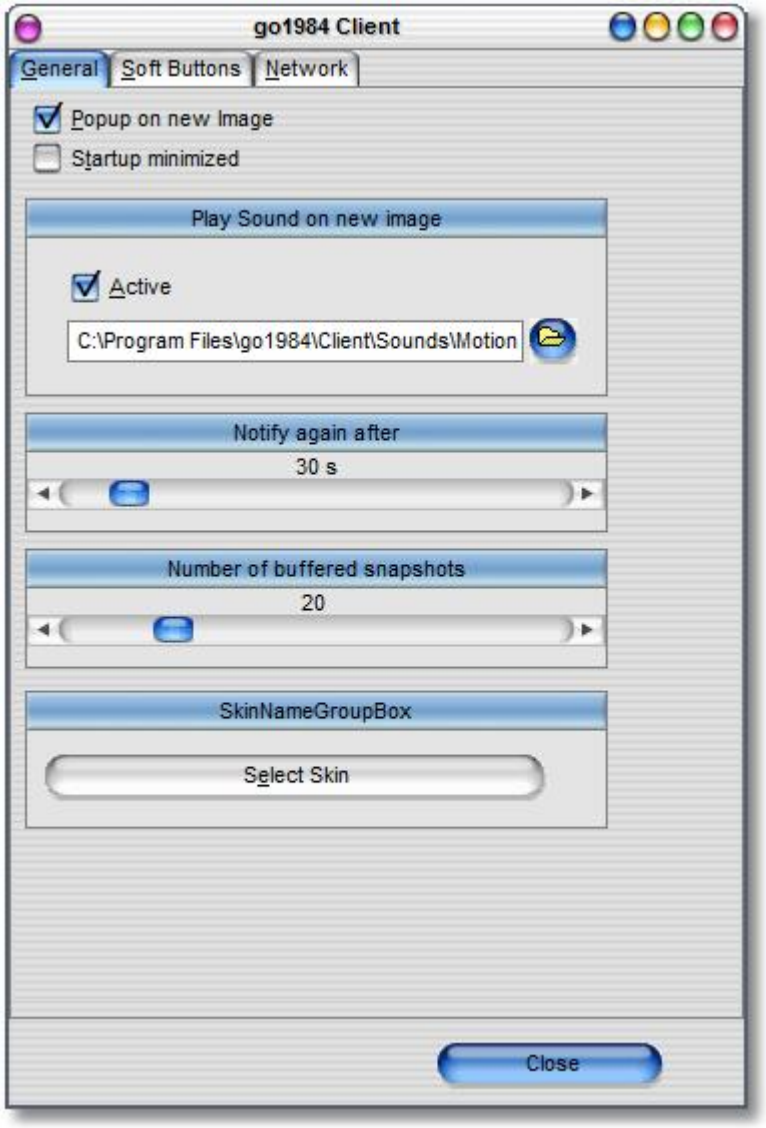
You can also apply other settings on the broadcast client.



Popup on new image	go1984 client appears in front when any motion is detected
Startup minimized	go1984 client is minimized on start-up
Play sound on new image	Choose whether and with which sound file you would like to be notified if a motion is detected
Notify again after	Minimum period which must elapse before the next time you are notified
Number of buffered snapshots	Number of buffered images (max. "100")
Select Skin	Choose one of the available skins

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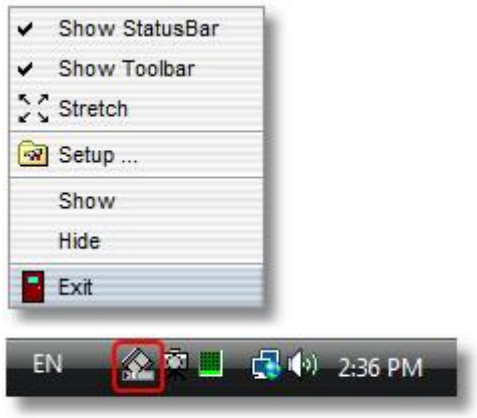
Note:

Most Windows programs are shut down completely when you close the program window. The go1984 Client is only hidden and continues to run in the background.

While the program is running, the go1984 Client symbol is displayed in the task bar near the time. You can use it to shut the program down completely or to bring it back to the foreground. Clicking on the icon with the right mouse key will open the corresponding menu.



The following functions are also available.

Show StatusBar	this displays/hides the status bar with additional information such as resolution, notification time, image size in the bottom section of the go1984 client window
Show Toolbar	this displays/hides the go1984 client toolbar
Stretch	this expands the image in the visible area (stretches)
Setup ...	this opens the dialog box for advanced settings
Show	this brings the go1984 client to the front again
Hide	this minimizes the go1984 client
Exit	this exits the go1984 client

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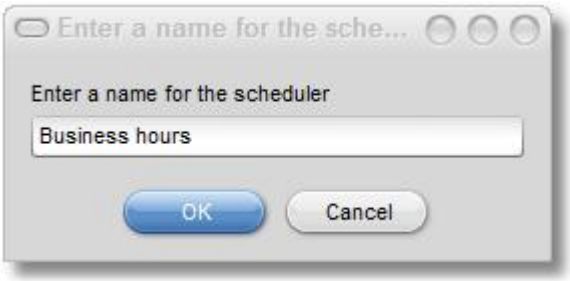
8.6 Scheduler

go1984 provides the option of executing certain functions such as recording or notifying only at certain times. You can define as many schedulers as you like, which can then be linked to the corresponding functions. In order to create a new scheduler, select the option "Scheduler" in the go1984 explorer.

You can give each scheduler a unique name.



Afterwards, define the active and inactive times for each day. Simply select the desired times using the mouse (keep left mouse button pressed). The active part will be shaded in green. You can copy any day's settings to a different day using drag & drop. Simply use the mouse to drag the name of the day (Monday, Tuesday, etc.) to a different day. Furthermore, you have the possibility of saving the completed scheduler to a file or loading it. This is a useful feature when setting up several similar schedulers.

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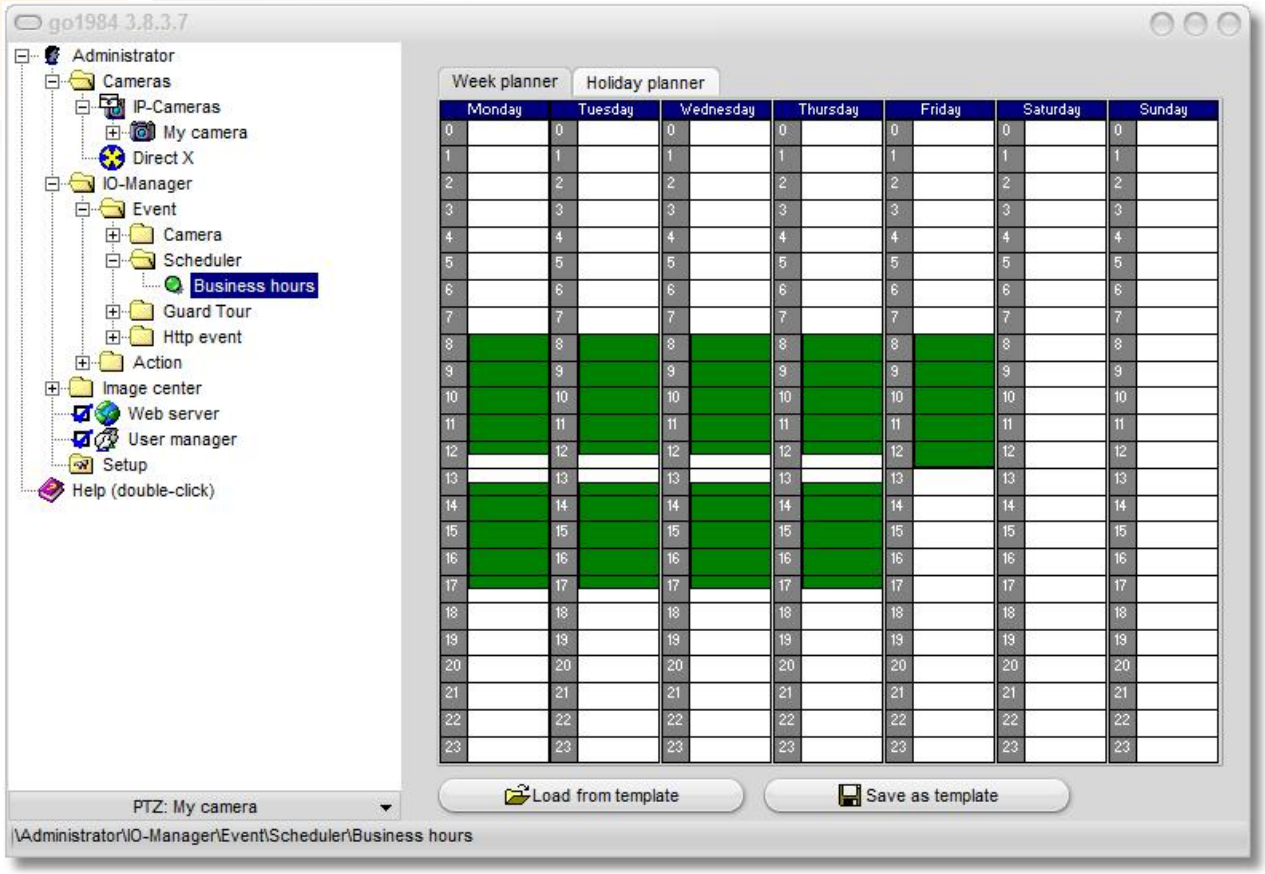
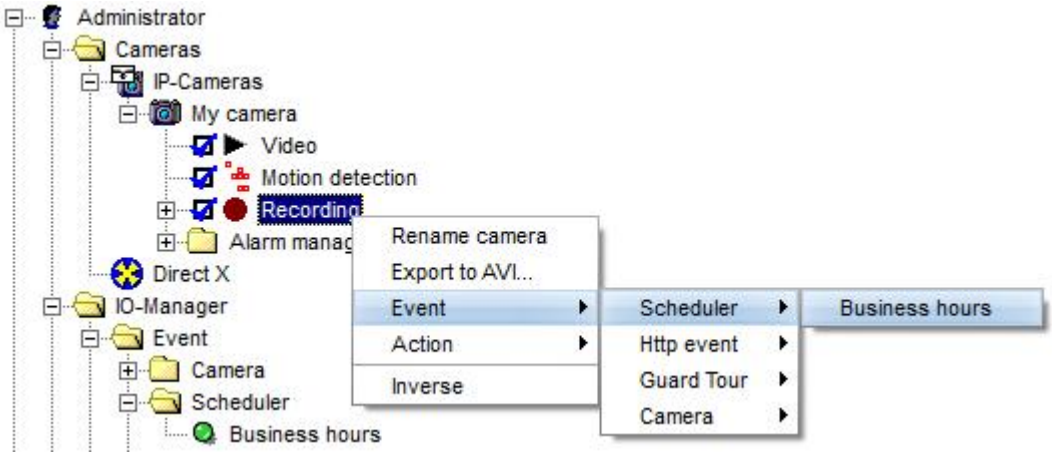


You can also use the scheduler to turn various camera functions on or off automatically. The mouse pointer changes to the following symbol when held over linkable functions: . Clicking with the right mouse button opens the menu for creating and editing links. Use the "Event -> Scheduler -> ..." entry to select one of the existing schedulers, which will then turn the selected function on or off.



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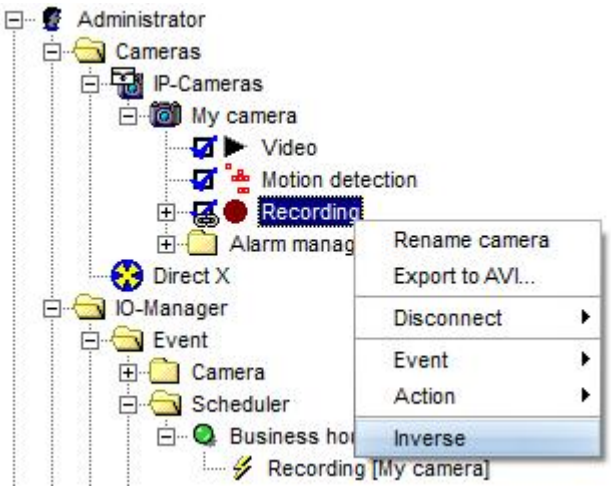
Note:

If certain functions need to be active at exactly opposite times, you do not necessarily need to create an extra scheduler. If you right-click again on a scheduler link you can reverse the scheduler.



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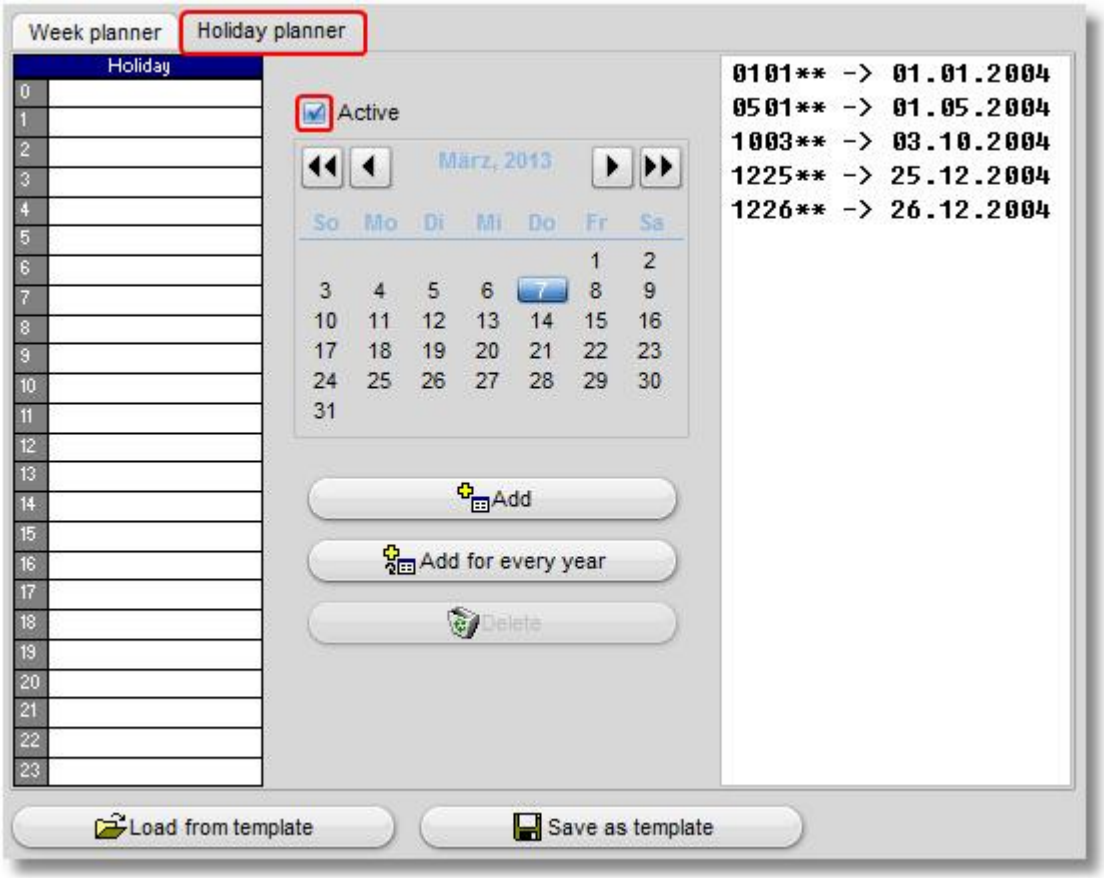
Under the "Holiday planner" tab you have the option to define days that should be processed separately. These definitions have a higher priority than specified week schedulers. In many countries public holidays are already pre-determined and can be changed or removed as required. You can also add via the calendar additional days for the current year or for each year.

Make sure that the holiday planner is not activated by default, as specified holidays will continue to be ignored. You activate this function by selecting the "Active" checkbox.



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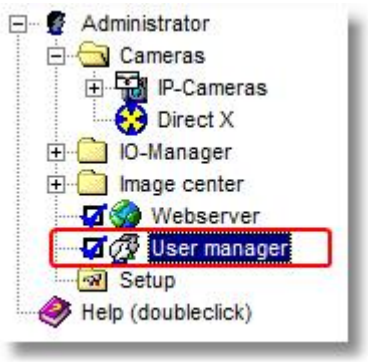
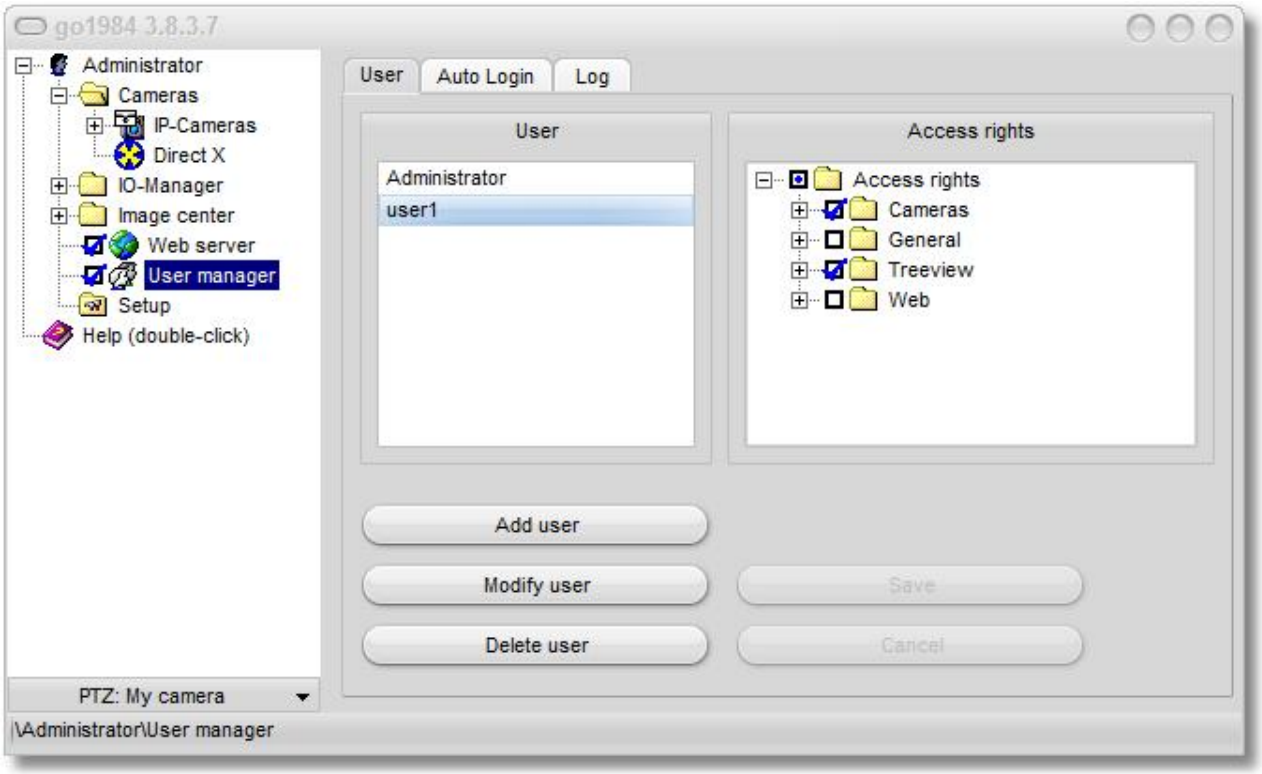
9 User management

User management allows you to allocate individual authorizations for access to the program interface, the web interface, recordings, and PTZ camera control. Directly after installation, user management is not activated, i.e. all functions are accessible without entering a username or password. Activate user management by clicking on the corresponding option field.



After activating the user management, access is only allowed after entering a valid username. go1984 creates a predefined, non-deletable Administrator account which always owns all access rights. This account can be used without a password at first. However, you should define a password as soon as possible by editing the Administrator account.

Username : Administrator
Password : [blank]



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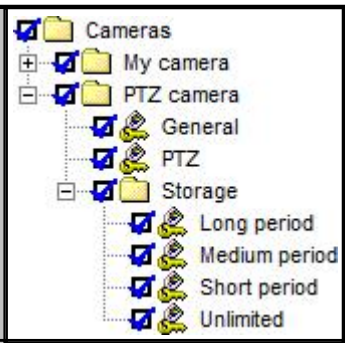
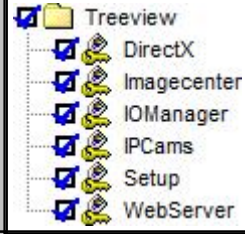
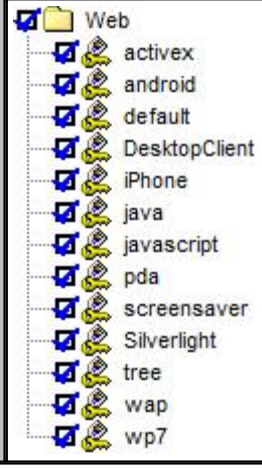
The "User" column displays all existing users. Use the three buttons to create, edit or delete users. Please note that a newly created user has no rights by default. In order to edit a user's right, first select the user. Afterwards, use the "Access rights" column to allow or deny the desired options. You can also change several users' rights in a single step. To do so, first select the first user, then press the CTRL-key on your keyboard and hold it while selecting one or several users from the list.

Access rights are subdivided into the following areas:

Cameras		Access to live feed, PTZ control, recording period
General		Deletion of scenes, shutting down go1984
Treeview		Access to the go1984 program interface and its image center, I/O Manager, webserver settings, camera settings
Web		Web server access via browser, Silverlight Client, Desktop Client, iOS Client, Android Client, Windows Phone Client (WP7) or screensaver

Don't forget to save the edited settings using the "Save" button.

Note:

If new cameras are integrated after a user is created, the right to access the cameras must be granted explicitly to the user that has been previously created.

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10 Webserver

go1984 provides an integrated webserver that is accessible from local networks and the Internet using TCP/IP.

This server facilitates access to live images and recordings:

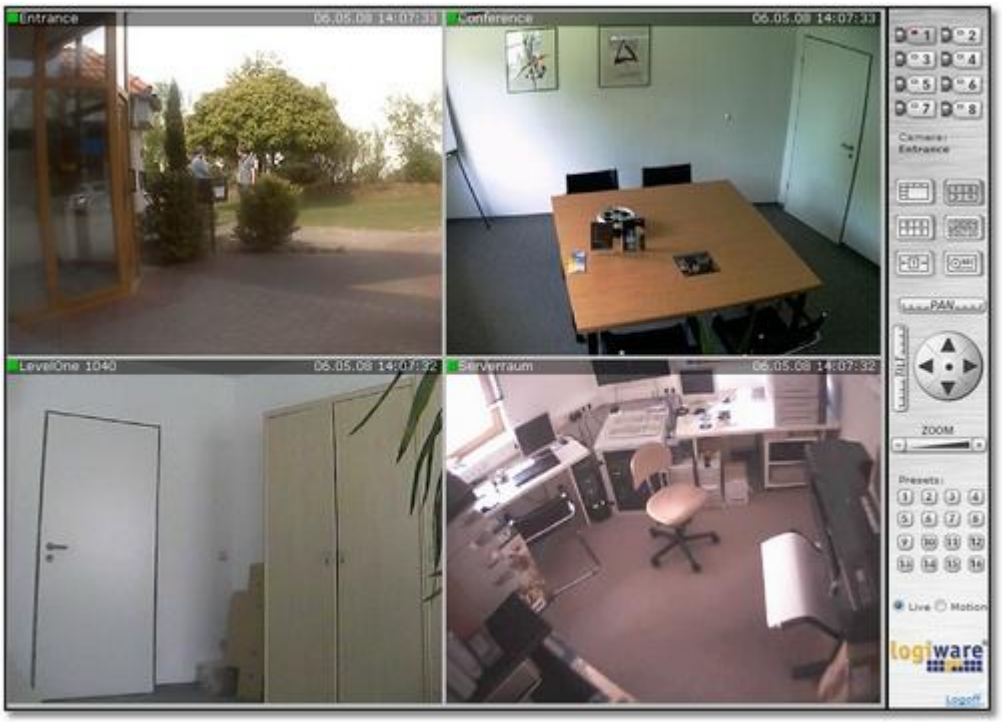
- via browser (e.g. Internet Explorer, Mozilla Firefox, Apple Safari or Google Chrome)
- via the go1984 Silverlight Client
- via the go1984 Desktop Client, a separate manual is available from the download area at http://www.go1984.com
- via the iPhone/iPad Client
- via the Android Client
- via the Windows Phone Client

Controlling PTZ cameras is also possible.

What's makes the feature special are the HTML templates, which permit a completely customizable design of appearances and functions. Use the examples provided to adapt them to your own needs. You'll find the templates in the following directory:

<InstallDir>\Web

where <InstallDir> is the directory where go1984 was installed.



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10.1 Configuration

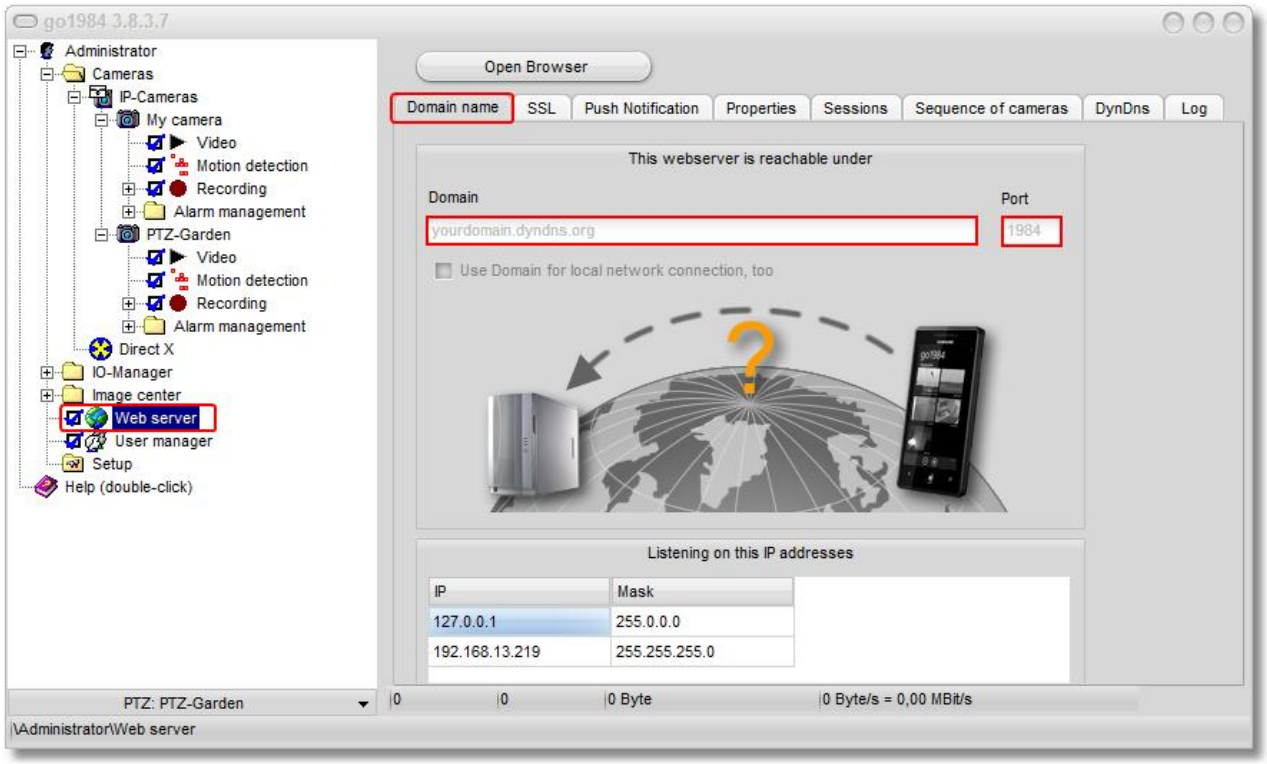
go1984 is delivered with predefined webs that can be called up using an Internet browser.

go1984 analyzes your computer's network configuration and displays all IP addresses to which the webserver responds. It is also possible to make the computer accessible via the Internet using a dynamic domain name.

Note:

Bear in mind that the web server has to be inactive so that you can amend the settings.

If you access the go1984 web server via the Internet, you must input without fail the public IP address (or domain name) in the "Domain" field under the "Domain name" tab, which is to be used to access the go1984 server. The server cannot be accessed externally without inputting this information!



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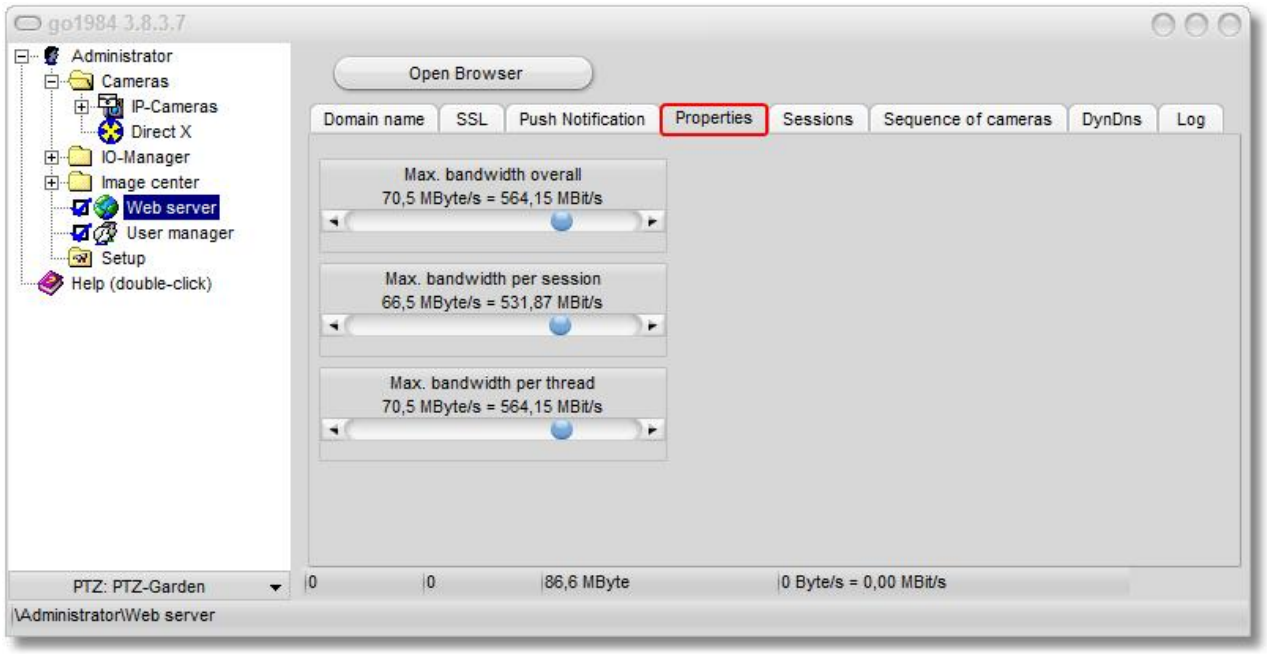
The port (default 80) used by the go1984 web server must be configured in the router so that queries are routed via the Internet to the computer running go1984. This setting on the router is often called "NAT" or "Port forwarding", but may also have a different name, depending on the model. For example, you will find below the setting in a FRITZ!Box WLAN router:

In addition, the available bandwidth can be limited. You may need this, for instance, if you are running other applications and want to reserve part of your uplink for them.



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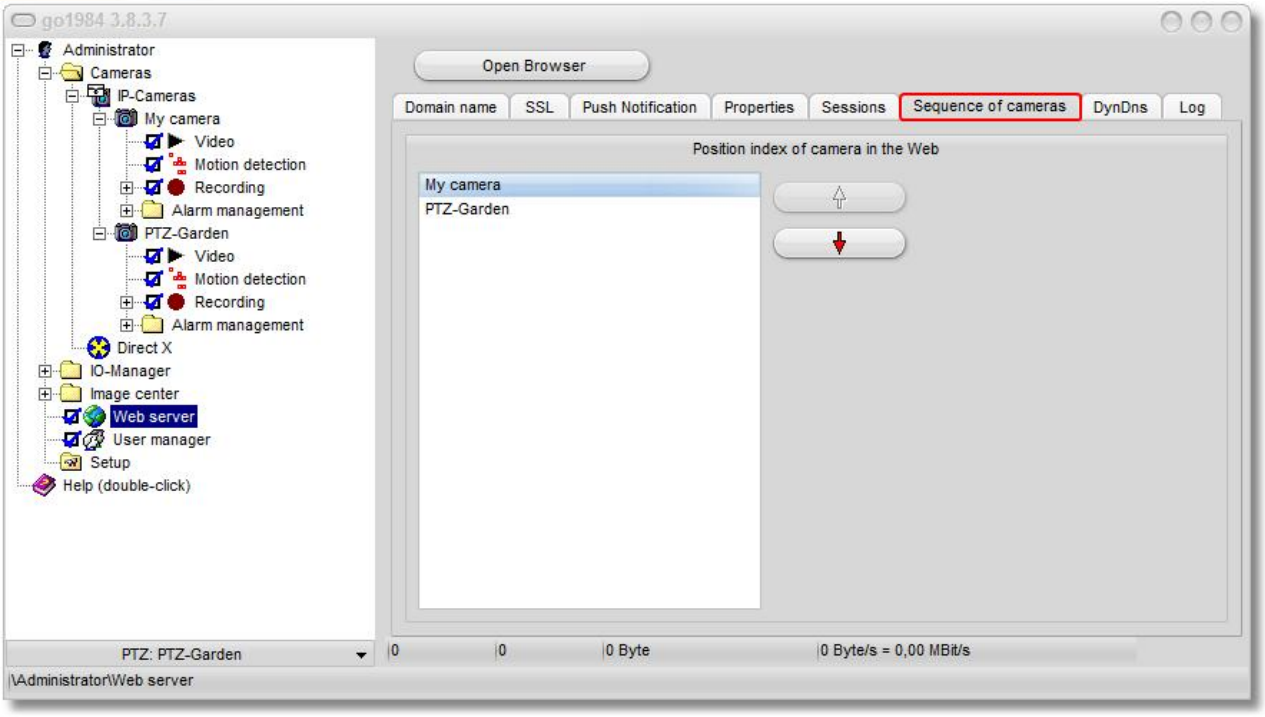
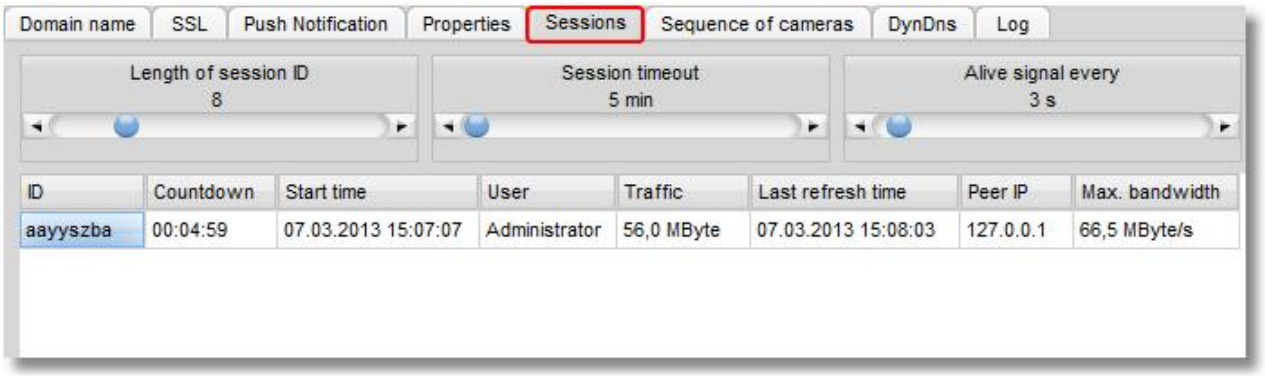
The web interface addresses the available cameras using a so-called index. This is a consecutive series of numbers which you can use to define in which order the cameras are displayed on the web interface.



You can also view information regarding the currently active and inactive connections to the webserver. For instance, the display indicates the session ID, the starting time, the time to automatic disconnection in case of inactivity, the username and so on.



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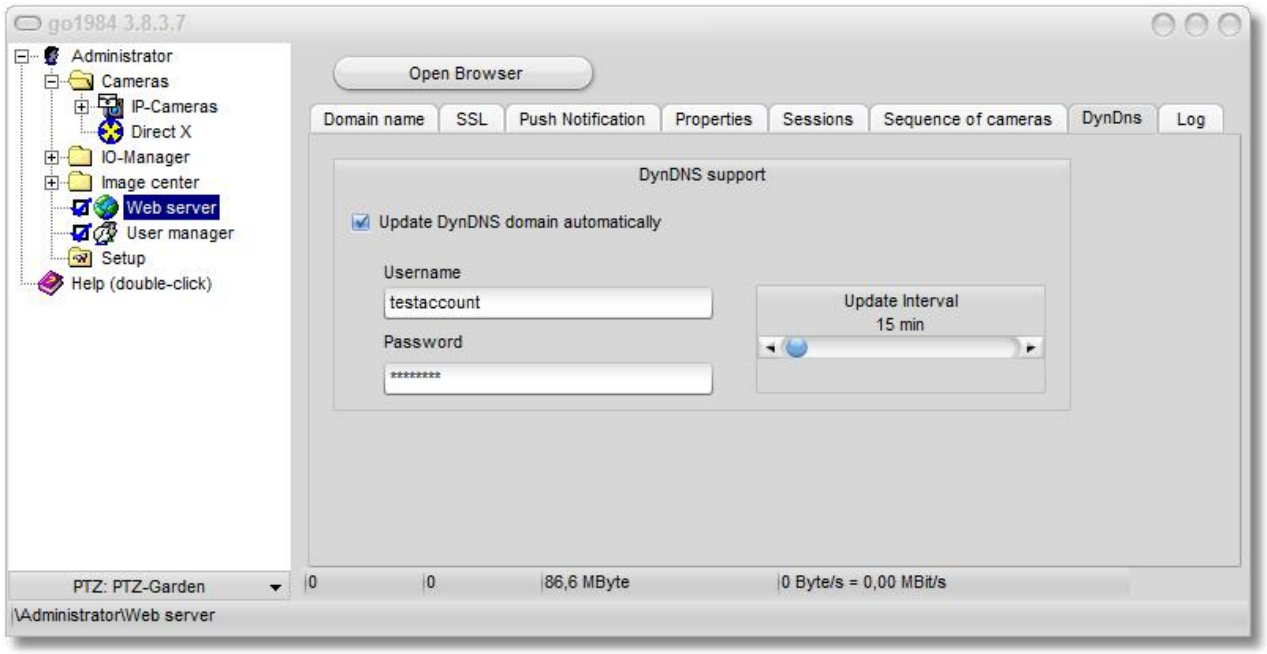
10.2 DynDNS

In order to make go1984 accessible via the Internet, you need to have either a static Internet IP address or a dynamic domain name. The latter can be set up using the DynDns.org service.

go1984 can now automatically update the domain name. Initiate the process by providing the domain name you've chosen, your username and password, and by selecting the option "Update DynDNS domain automatically".

Now you'll be able to access your computer from the Internet using the dynamic domain name.



Note:

If your router already has an integrated DynDNS client, you should use this instead of the go1984 function mentioned above. The benefit of the router is that any change to the IP address can be notified to the DynDNS server immediately.

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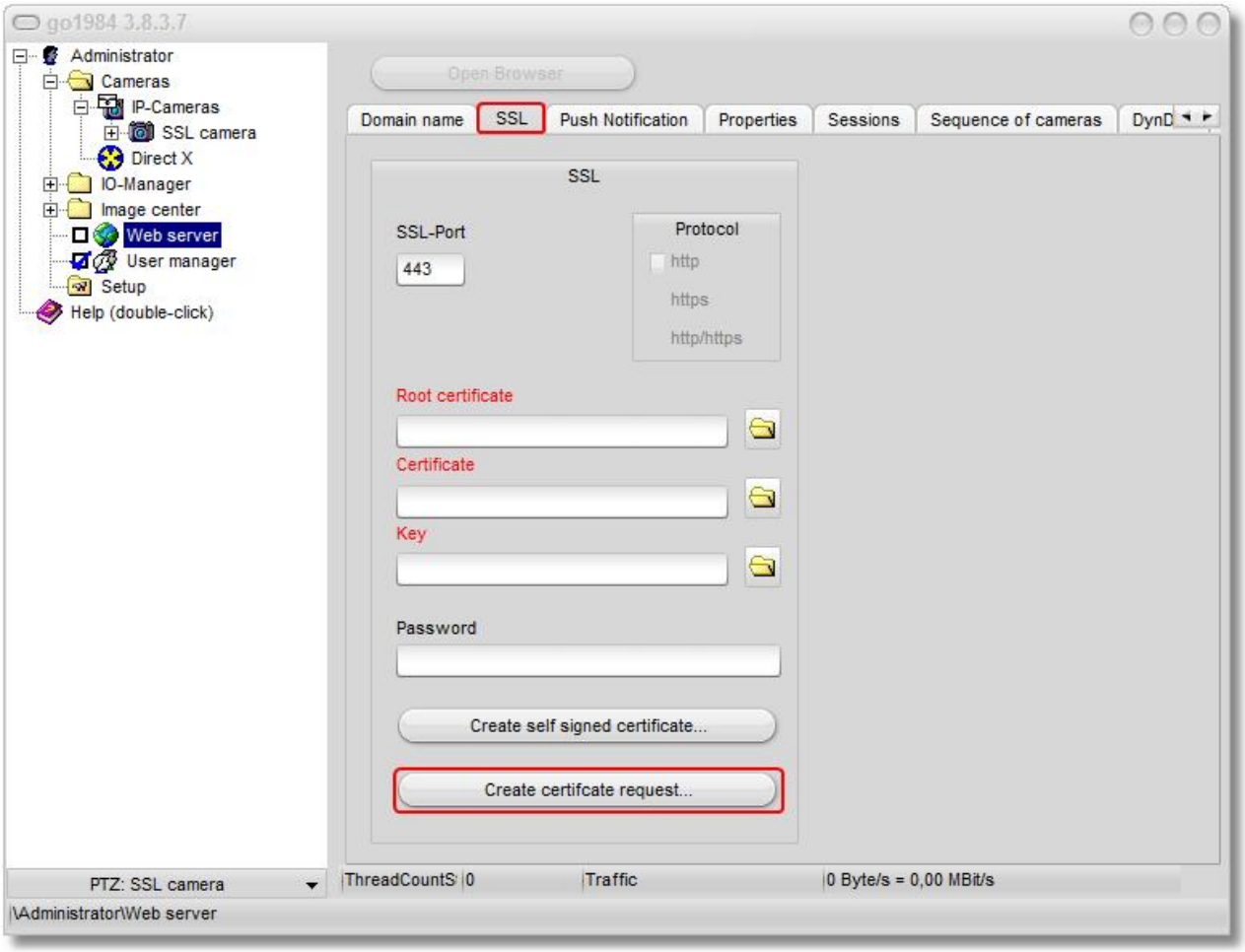
10.3 Web server connection via SSL

In the go1984 Ultimate Edition, you have the option available to access the go1984 web server via a secure HTTPS connection using SSL encryption. The HTTPS protocol offers authentication via an SSL handshake and subsequent encryption of the communication between the client and web server.

To be able to use SSL, you first need to apply the necessary settings for the certificate to be used. You can create a "self-signed certificate" for an initial SSL test. However, this will only encrypt the connection and not provide authentication of communication partners.

For the maximum possible security, you are recommended to request an SSL certificate from a certified certification authority (e.g. VeriSign). go1984 offers the option to generate the Certificate Signing Request (CSR) for you.



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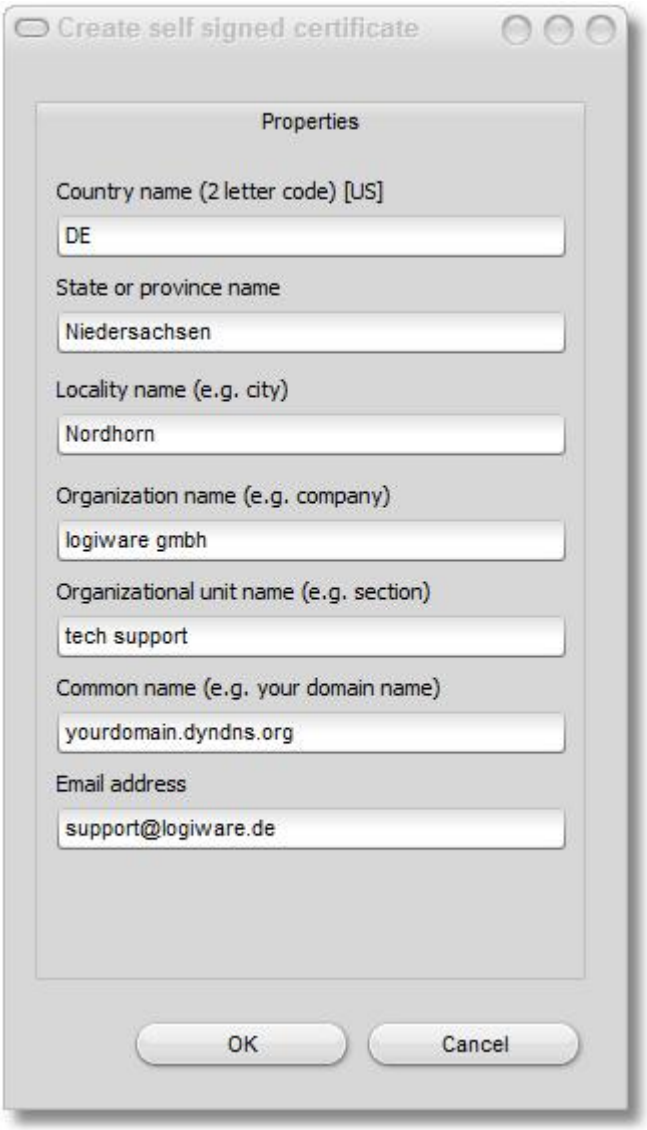
After clicking the "Generate certificate request…" button, input the following mandatory data:

Country name	Use the two-letter country codes without any additional punctuation, e.g.: US, DE or CH.
State or province name	Enter the name of the state or county in full, e.g.: California.
Location name	Enter the name of the city or town in this field, e.g.: Washington.
Organization name	Your company's name.
Organizational unit name	Name of the department or organizational unit in your company.
Common Name	Domain name, such as the one specified in the "Domain" field in the web server configuration
Email address	Your email address.
Days	(Only when creating a self-signed certificate) the certificate's period of validity in days.



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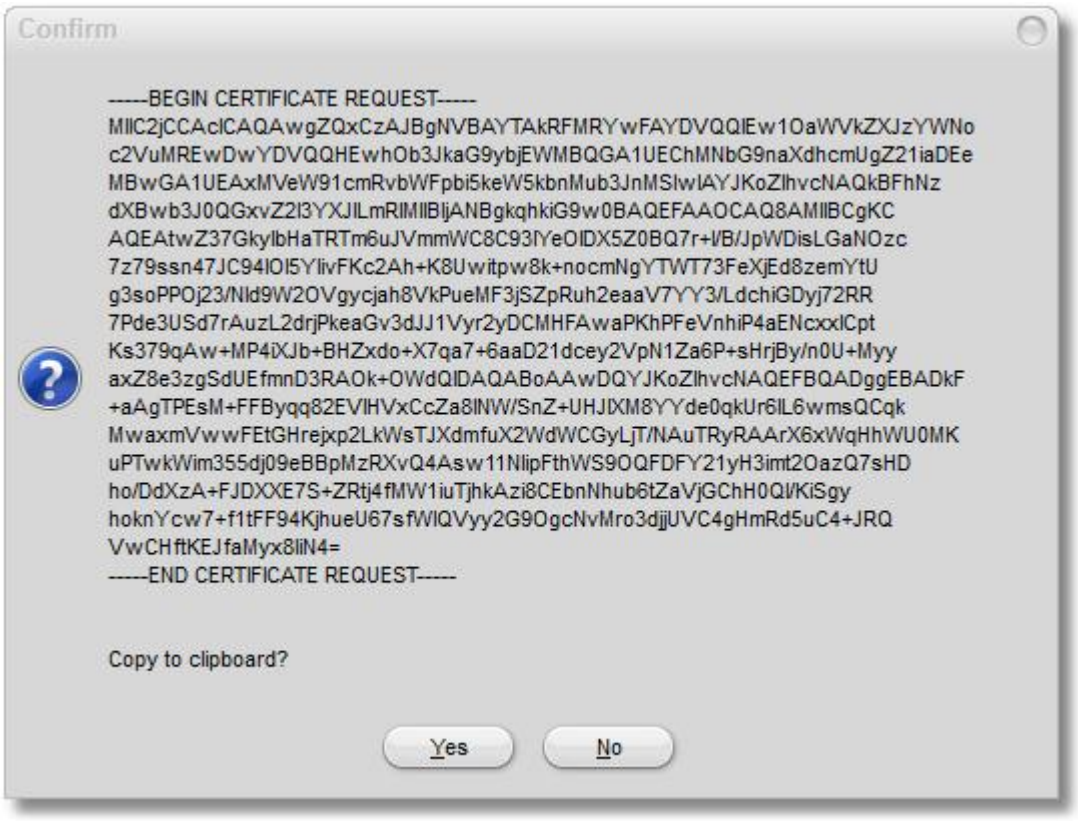
Click on "OK" to confirm your details. go1984 generates the certificate request that you can copy directly to the clipboard so that you can request the SSL certificate from the certification authority of your choice.



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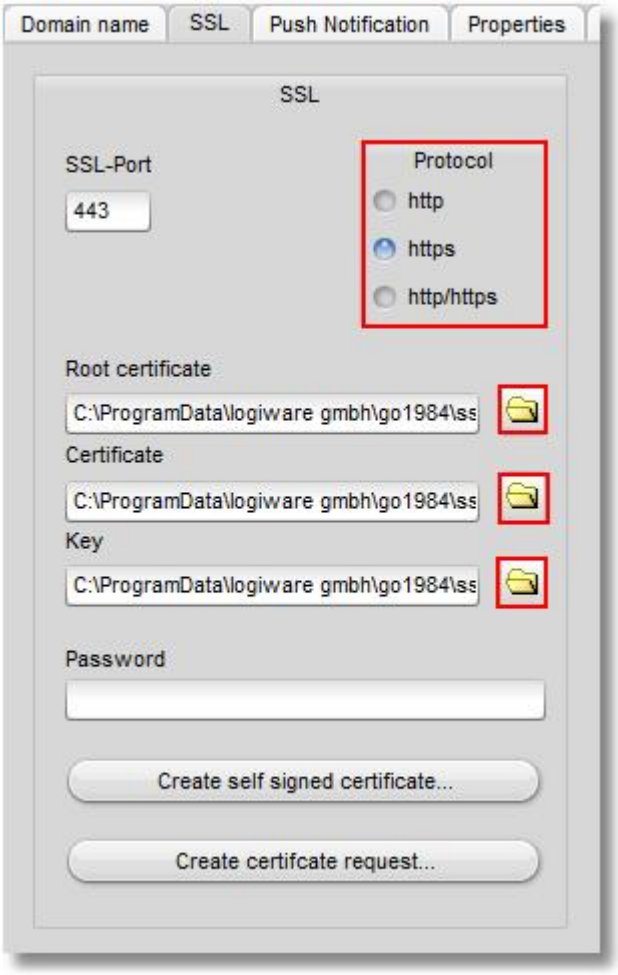
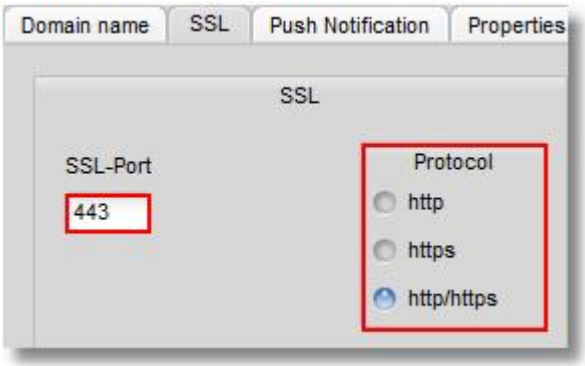
After you've received your server certificate from the certification authority, you can select it as "root certificate" and "certificate". When the certificate request was generated, the relevant key was stored as "key.pem" in the following locations on your go1984 server:

Under Windows 7/Vista/2008: C:\ProgramData\logiware gmbh\go1984\ssl\<ID>\
Under Windows XP/2003: C:\Documents and Settings\All Users\Application Data\logiware gmbh\go1984 \ssl\<ID>\



You still need to select whether a connection should be possible to the web servers only via HTTPS or using HTTP and HTTPS. You can also specify for the HTTPS connection a different port to the default port 443.



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10.4 Interface

Call up the web interface in your browser by using the following URL:

http://ip:port

Replace the variables as follows:

ip	by the IP address or domain name of the computer running go1984
port	by the port defined in the webserver configuration (default is 80)

You will then end up at the web server homepage where you can choose the web and transmission quality that you want ("high" or "low"). In addition, you will find the option for installing the go1984 Desktop Client or the go1984 Silverlight Client, as well as the links for the mobile client applications for iOS, Android and Windows Phone.

You can also access the web you want directly:

http://ip:port/web

Replace the variables as follows:

ip	by the IP address or domain name of the computer running go1984
port	by the port defined in the webserver configuration (default is 80)
web	by the directory name of the web. The following webs are predefined as examples: • Silverlight: /silverlight • Java: /java • Java Tree: /tree/index.htm?runtime=tree • JavaScript: /tree/index.htm?runtime=javascript

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In the tree web you can also specify the camera or view you want directly:

...?view=x" (1=2x2, 2=3x3 etc.) or ...?camera=cameraname

The complete URL could look something like this:

The web interface shown in the diagram will then be displayed in your browser.

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If you've activated the user management, you'll first be shown a login request requiring you to enter a valid username and password.

Note:

To ensure that all the demo webs can run properly, you sometimes need to adapt your browser's security settings or install additional plugins.

If you don't have the Microsoft Silverlight plugin installed you need to run the Silverlight Client, or the wrong version is installed, you will be informed of this. To install the plugin, simply follow the instructions in the browser and restart the browser after you have installed the plugin.

If you have no Java Virtual Machine installed, you can download it free of charge at the following URL:

http://www.java.com

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10.5 Silverlight Client

From go1984 version 3.8.3.5 onward, you can use the go1984 Silverlight Client to access your go1984 server. The client can be used with the current Silverlight plugin under both Windows and MAC OS X.

You still access a go1984 web server first via a browser. You select the go1984 Silverlight Client from the client list.

If applicable, you will be prompted first to install the latest Silverlight plugin. Then click the button to install the Silverlight Client:

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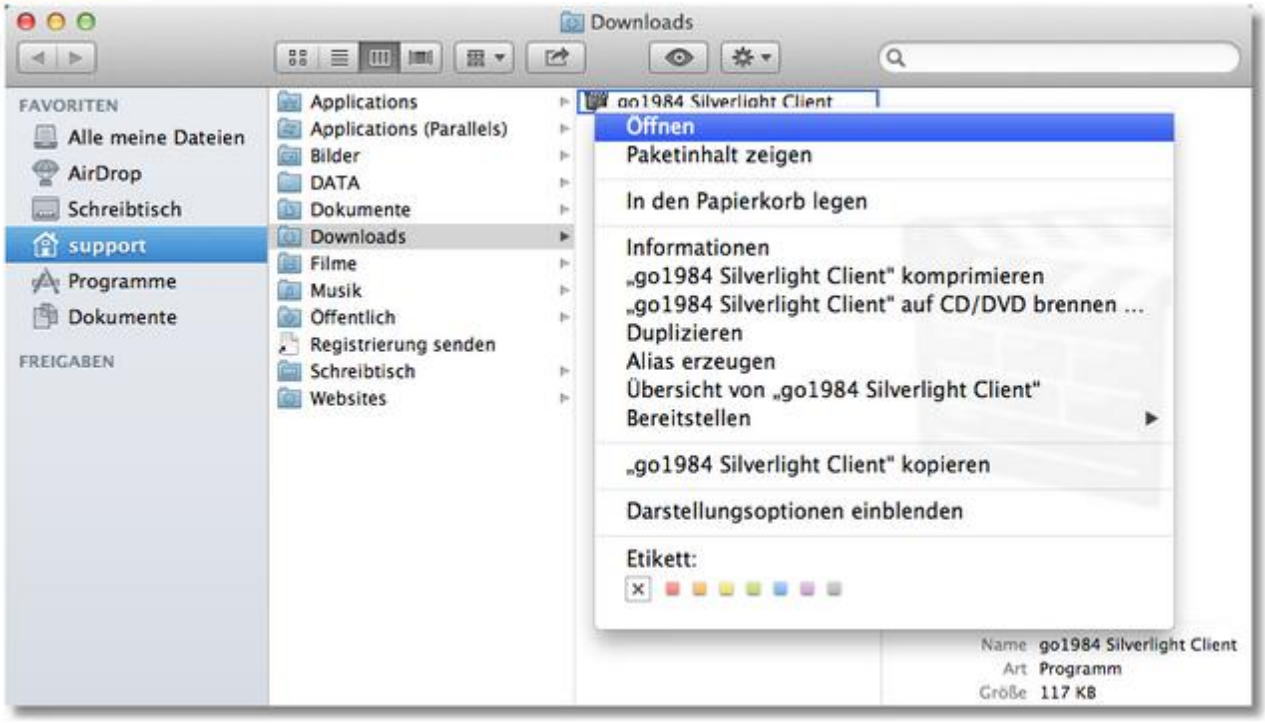
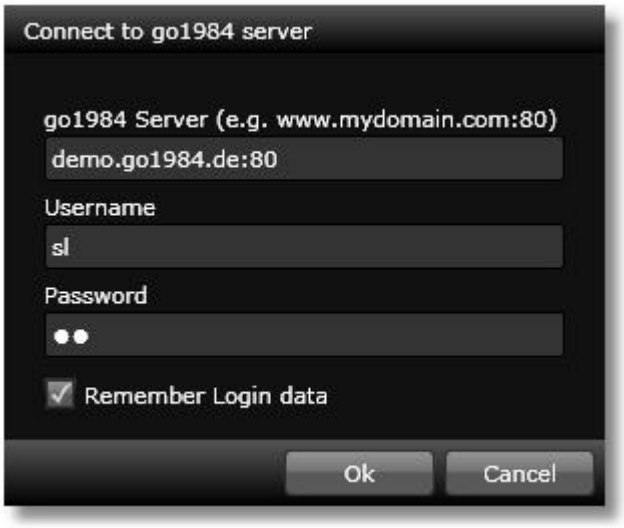
Under Mac OS X the Silverlight Client is stored by default in the Downloads folder. **Important: Right-click on the mouse to open the Silverlight Client rather than double-clicking on it!**



Now input the connection data for your go1984 web server. Generally speaking, this is identical to the data that you have used to access the browser, as described above:



Note:

A user-specific configuration of the Silverlight Client is saved on this go1984 "master server". This allows you to connect from any computer to the go1984 web server and always find the same settings. This means that, when there are several users, you should always use a unique username for every user, even if different users are assigned the same rights.

If the go1984 user administration function is not active, the configuration will still be saved, but it will be identical for every anonymous user who accesses the server.

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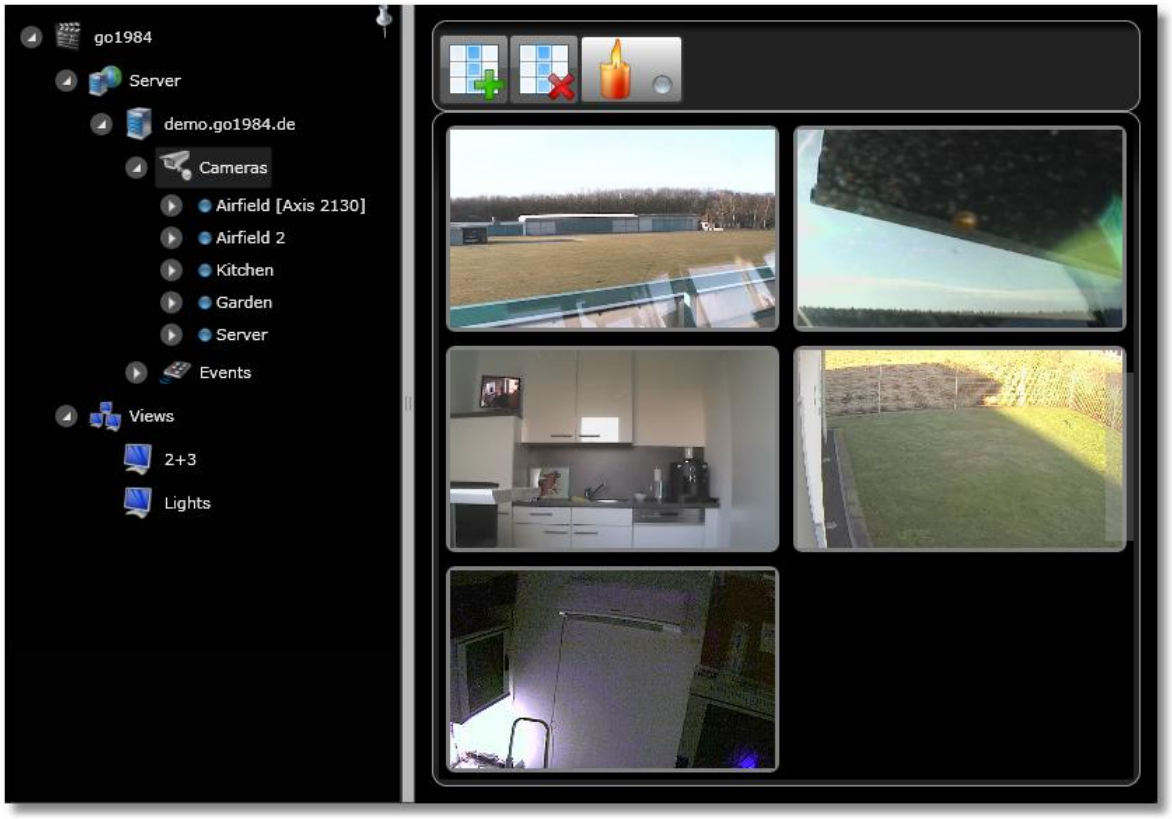
10.5.1 Basic operation

You can now see the overview of the cameras available. The overview is automatically generated according to the number of cameras. If you want to add a further column to the list, click on the button with the "+", and if you want to remove a column, click on the button with the "x". In the program's default operation images are only refreshed when any movement is detected. As an option, you can also use the "candle" button to make cameras dim automatically when there is no movement:



Select the first "go1984" option from the tree structure and run the client by clicking on the following button in full screen mode:

Click on the pin that is visible in the top corner to hide the client's menu tree:

Quit full screen mode again by clicking on this button:

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Exit the client by clicking on the following button:

The client supports multi-server operation. You can add more go1984 servers as follows:

Let us configure the necessary parameters.

From a performance perspective, you should request the images in original quality (Quality=100). If the bandwidth is not sufficient, for instance, for Internet access, you can reduce the value accordingly.

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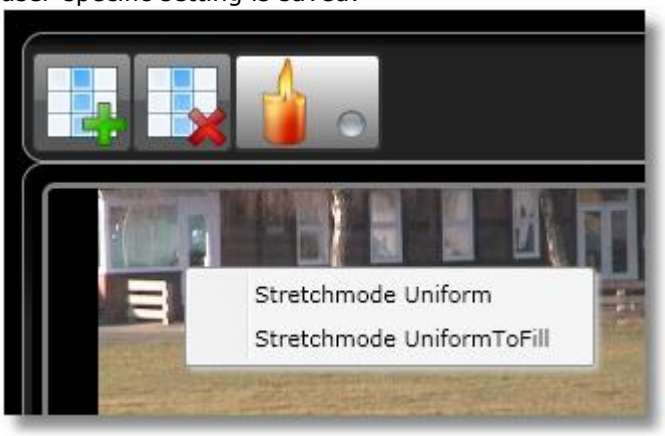
You can disconnect and restore the connections to individual go1984 servers at any time.

You can control the display of every single image in the list by right-clicking on the image. A user-specific setting is saved:



The following options are possible:

Stretchmode Uniform		The image is displayed completely in the correct aspect ratio.
Stretchmode UniformToFill		This image is displayed in the correct aspect ratio, but in full screen format. Some sections of the image are occasionally not visible. This is the default setting.

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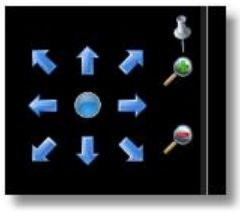
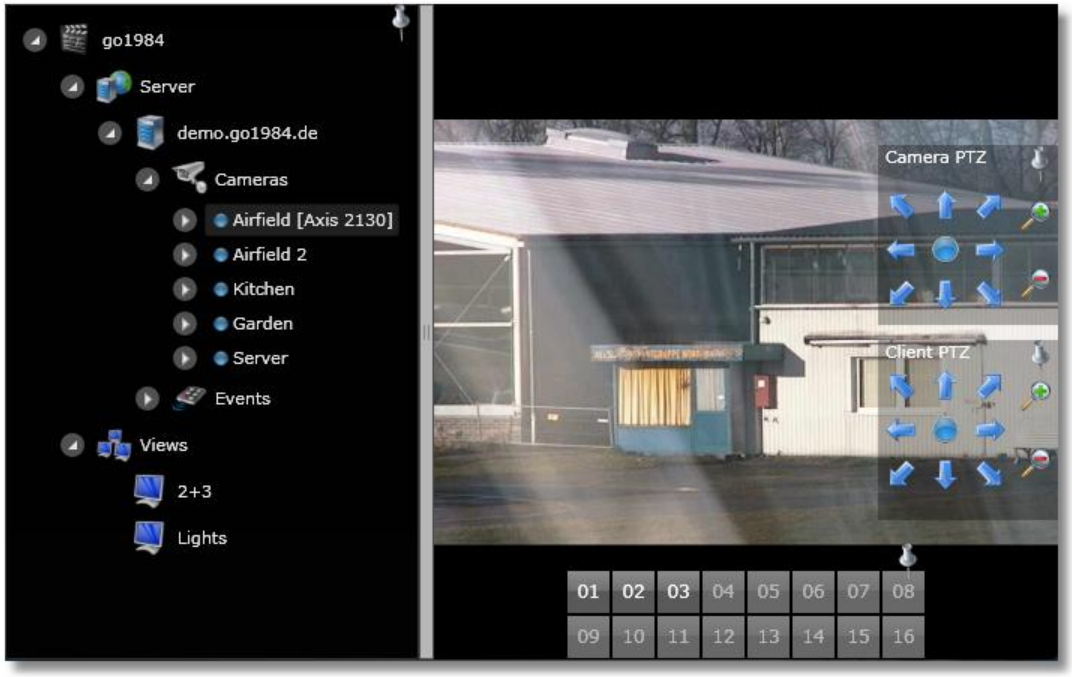
If you press down the left mouse button at the top of the overview, you can use the mouse scroll wheel to run a "Client PTZ" function to make it possible to recognize important details. A double-click always brings you back to the unscaled general overview. Alternatively, after moving the mouse over the right border of the screen, you can display a "Client PTZ" control panel, which will be displayed permanently if you click on the pin:

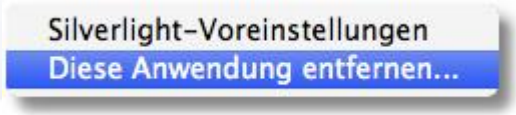


Double-clicking on a camera image in the overview or selecting the camera from the tree structure will take you to a live view of the individual image. If you double-click again, you will return to the camera overview. Move the mouse above each image over the transparent area on the right to also display here the control panel for the "Client PTZ" function. If you are dealing with a movable camera, you can also display the "Camera PTZ" control panel, as well as the control panel for the preset positions at the bottom of the screen:



As in the camera overview, you can use the "Client PTZ" function by using the mouse scroll wheel and moving the image while keeping the left mouse button pressed down. In this case too, if you double-click again, you will go back to the view of the complete image. If you are dealing with a movable camera, you can also use the control functions by pressing and holding down the Ctrl key (Alt key under MAC OS X) and clicking or using the scroll wheel in the live image. If you are dealing with a camera that supports an area zoom, you then have the chance, after pressing and holding down the Ctrl key (Alt key in MAC OS X) to stretch a frame in the image, which is then focused

If you want to remove the go1984 Silverlight client, you right-click above the client window and select "Remove this application…".



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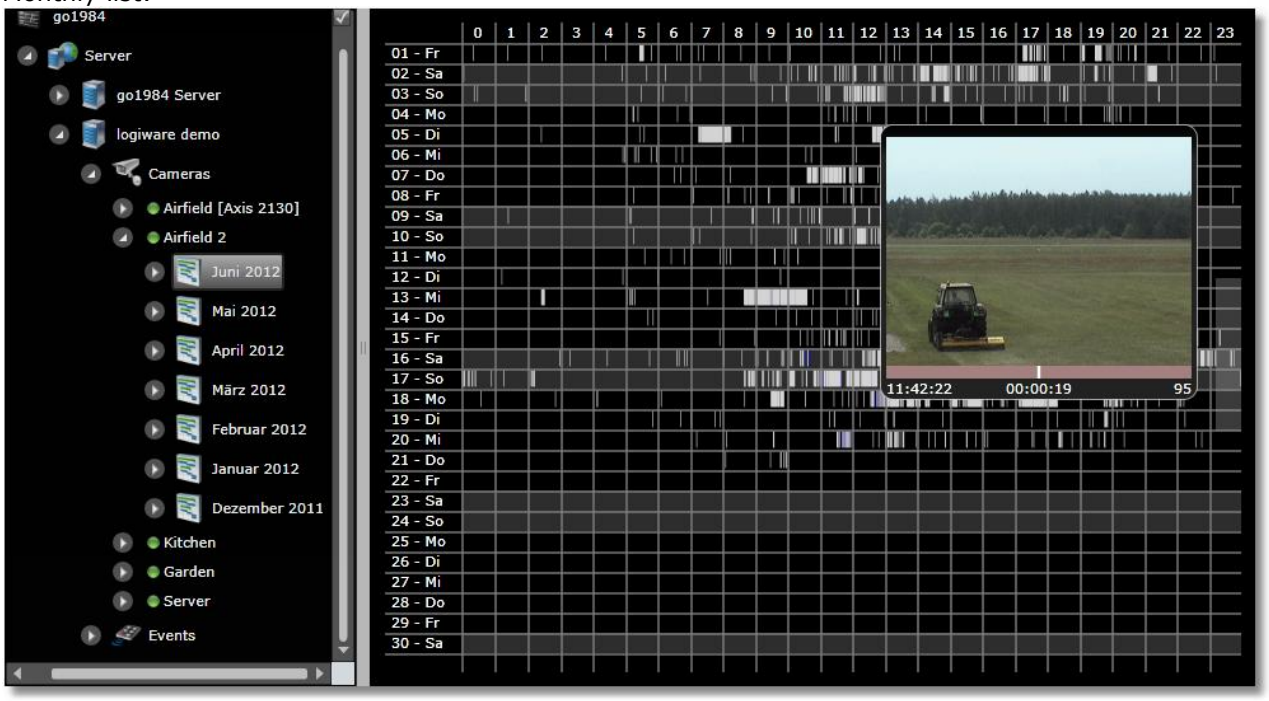
10.5.2 Scene playback

You will find a list of months and dates for available recordings under the relevant camera in the tree structure. In both cases, if you move the mouse pointer over it, you can obtain a preview of the relevant scene file:

Monthly list:



Daily list

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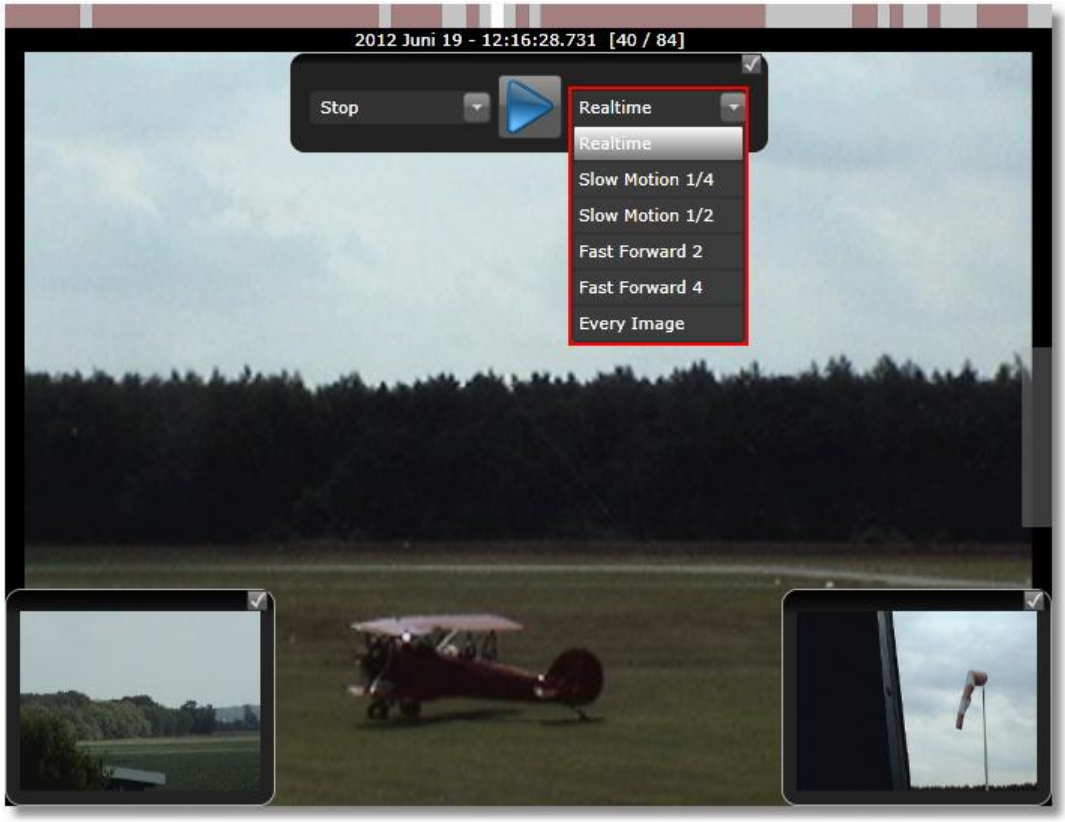
You can open and play the scene file in the integrated player by double-clicking on it or selecting it directly from the tree structure. At the bottom the previous and following scene files are displayed with a preview image. If you click on it, the corresponding recording that you want will start to play.



There are various playback speeds available:

Realtime	Playback in real-time. In the case of a narrow-band server connection, individual frames are sometimes omitted to ensure playback in real-time, in spite of the poor connection.
Slow Motion 1/4	Quarter the real-time speed – individual frames are omitted if required due to the connection.
Slow Motion 1/2	Half the real-time speed – individual frames are omitted if required due to the connection.
Fast Forward 2	Double the real-time speed – individual frames are omitted if required due to the connection.
Fast Forward 4	Quadruple the real-time speed – individual frames are omitted if required due to the connection.
Every Image	Playing back every single image. When there is a good server connection, this playback mode provides real-time playback, but in the case of a narrow-band connection, it sometimes results in extremely delayed playback.

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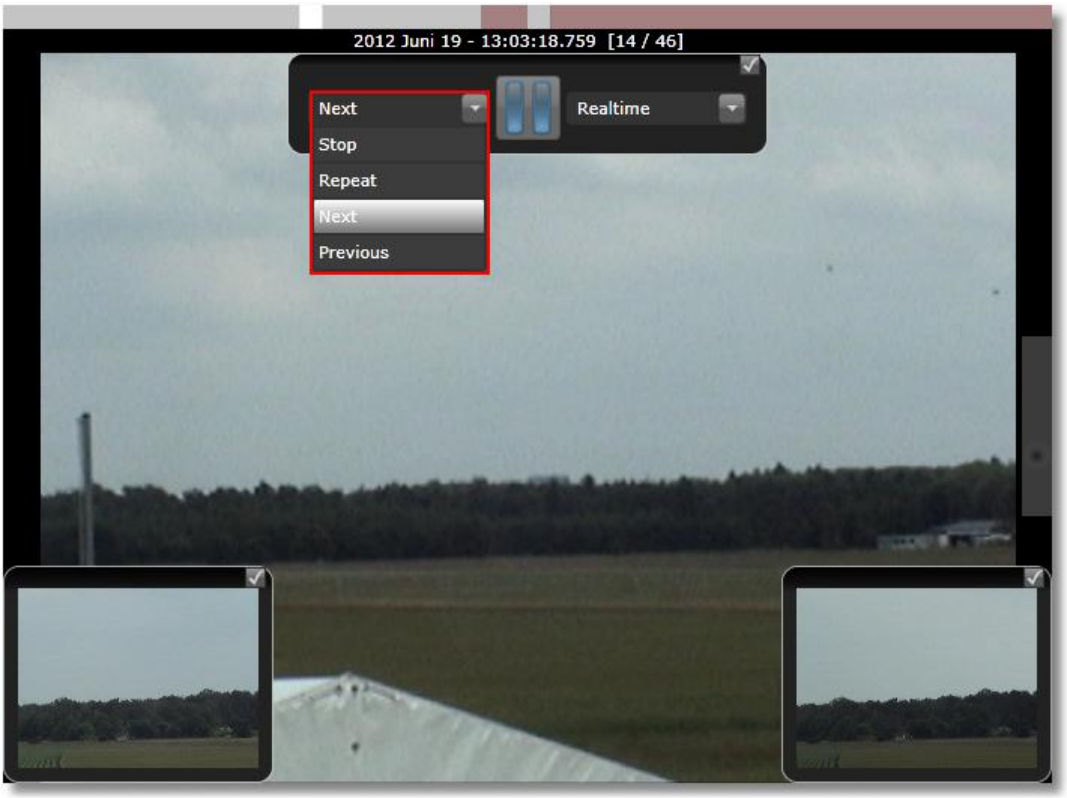
In addition, you can also use the various playback modes to determine what the player should do after reaching the end of the scene:

Stop	Playback stops at the end of the scene file.
Repeat	The current scene file is repeated indefinitely.
Next	All the scene files are automatically played one after the other in chronological order.
Previous	All the scene files are automatically played one after the other in reverse chronological order.



The integrated player also allows you during playback to use the "Client PTZ" function described earlier on via the mouse or the "Client PTZ" control panel.

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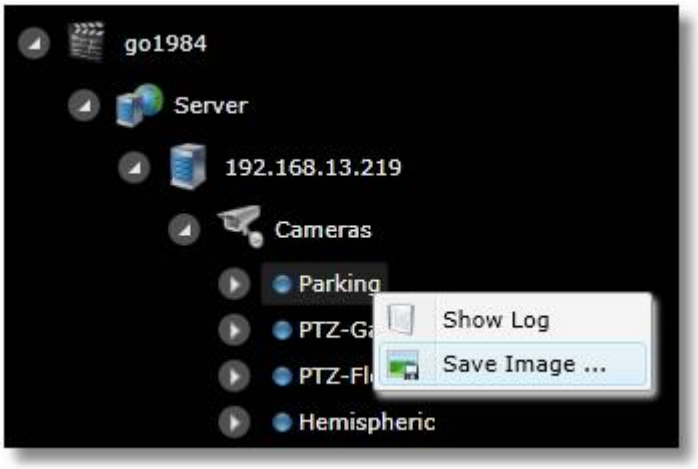
10.5.3 Export functions

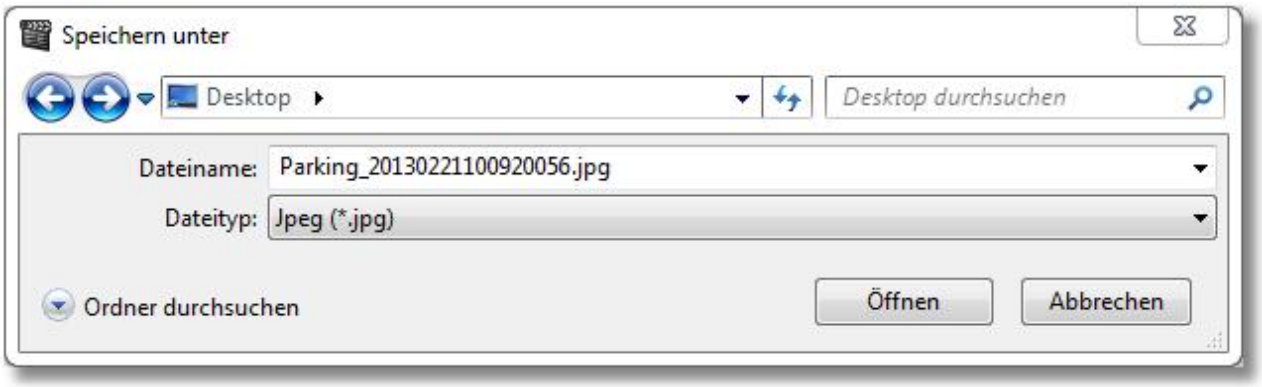
There is often the need to supply individual images or scene files as part of providing evidence to third parties. With this in mind, the go1984 Silverlight client offers the following easy-to-use export options:

- Live images can be saved as Jpegs.
- Individual images in the archive can be saved as Jpegs.
- Scene files in the archive can be exported as AVI files.

Right-click on the name of the relevant camera in the tree structure and select "Save Image …" to save the relevant image as a Jpeg.



The camera name is used by default as the file name, followed by the current timestamp.



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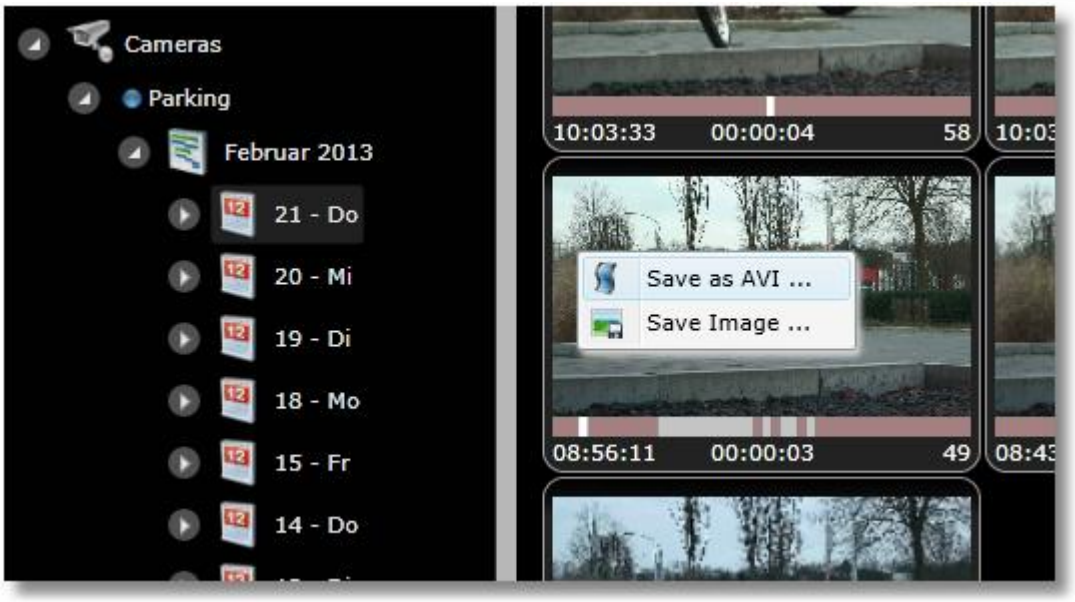
Right-click on a file in the daily list to export this file in AVI format or the most recent image shown as a Jpeg.



While a scene is being played back in the integrated player, if you right-click, you can also export the relevant image as a Jpeg or the relevant scene in AVI format.

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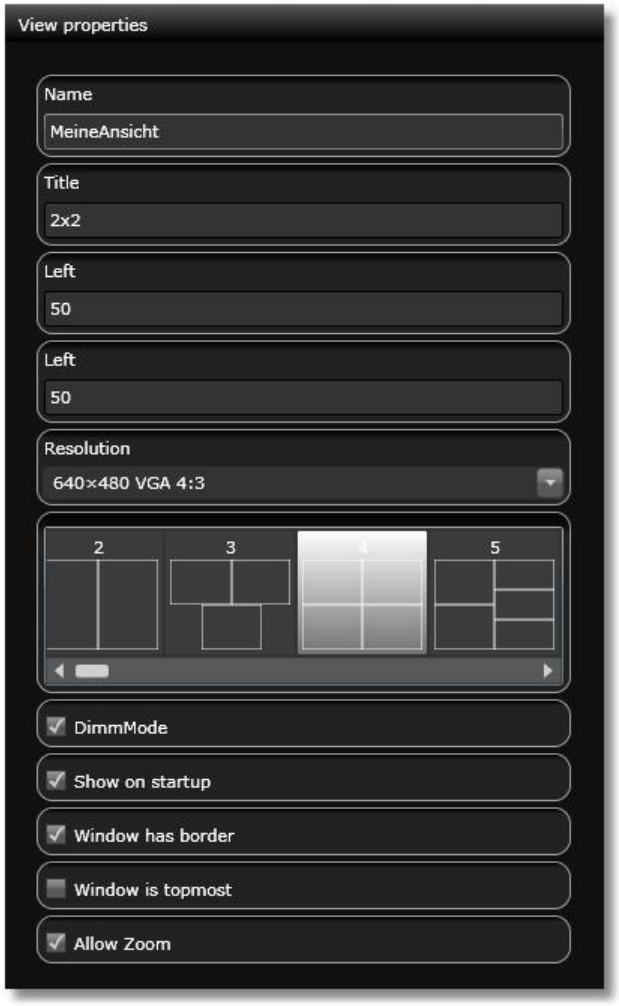
10.5.4 Camera views

The integrated image center allows you to create individual camera views and show them in additional program windows.

To create a new view, first select the "Views" option from the tree structure and click the "+" icon. Then apply the settings you want in terms of name, window position and size, resolution and camera number or segmentation:



After you click "OK", the view is created with the desired settings. You can open the view at any time by double-clicking on the view name in the tree structure.

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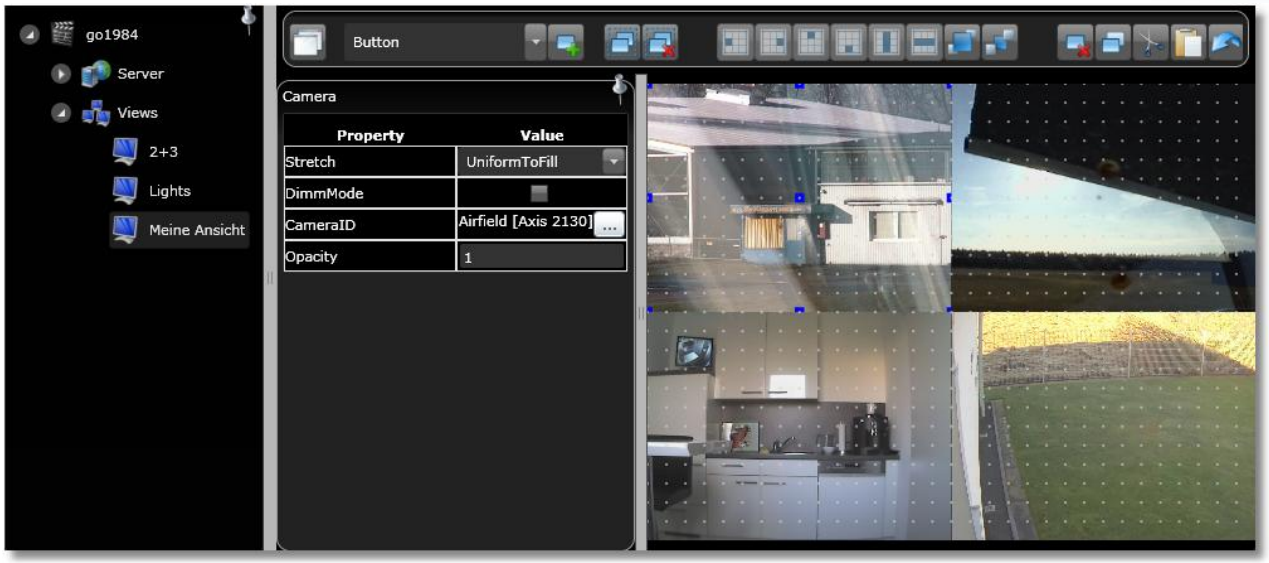
You can edit the views you've created further. After clicking on a camera image, you have the option to select for the camera that you've chosen the stretch you want, an automatic dim mode when the camera is inactive and opacity. If you want to show a different camera to the one that you've currently chosen, select it under the "CameraID" option:



In the work area you can move a camera image over the blue dot in the center within the view area and scale it above the dots at the side. The grid shown makes positioning easier while doing this. If, on the other hand, you want to display/edit the view's properties, unselect all the camera images, control panels, etc.:

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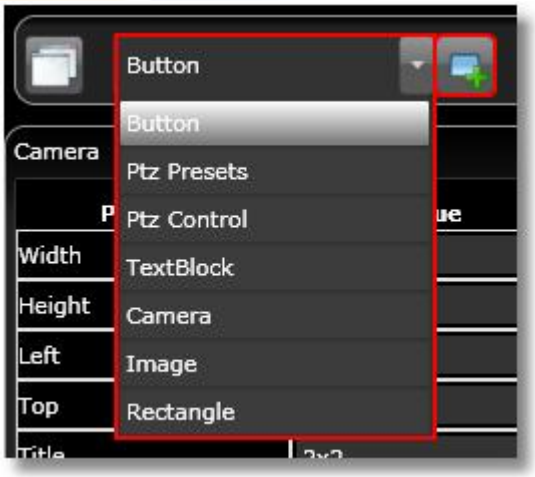
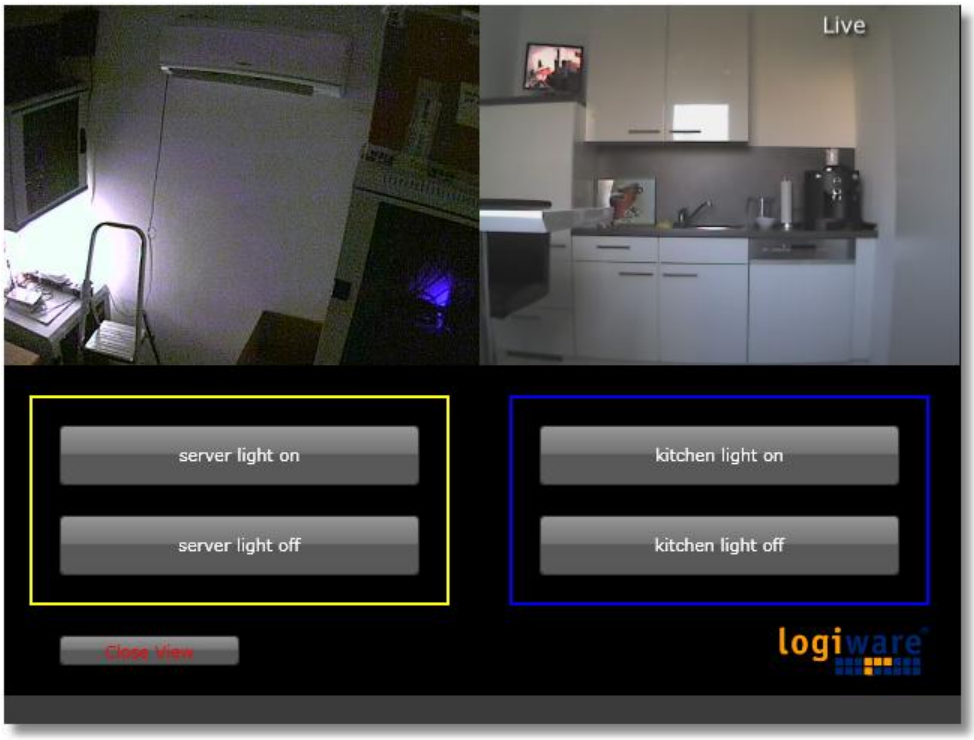
You can select other control components via the drop-down menu and insert them using the "+" icon.



This will allow, for instance, PTZ control panels or buttons with advanced functions to be integrated into the view:



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The scenes that have been transferred due to movement being detected are cached on the client computer for each camera and can be played again synchronously with the camera.

Note:

The "Replay" cache is not supported in the Pro Edition. The images played back are blurred.

In the default setting of a new view, the cached sequences start automatically being played back after a period of time without any movement in a continuous loop until the next movement is detected, and the system automatically switches to live mode.

You will see at all times in the top right corner whether the view is currently in "Live" or "Replay" mode. You can switch manually between the modes if you click on this status display:

In Replay mode you can display a timeline under the images which uses markings to show the movements detected for each camera:

The time for the first/last movement in the playback cache is shown on the left and right respectively. The progress bar shows the time of the scene currently being played. If the available cache is full, the oldest scenes are automatically deleted to make room for new scenes (circular buffer).

- Click on the timeline to start the playback of the cached scenes at this point.
- Move the mouse pointer over the timeline, while keeping the left mouse button pressed down, to obtain a quick preview.
- Click on the timeline, keep the left mouse button pressed down and drag the mouse pointer into the camera images area so that it is permanently running in Replay mode. If you click on "Replay" in the top corner, this takes you back to live mode.

You can select for both Live mode and Replay mode an "AutoZoom" option ("ReplayAutoZoom" for Replay mode) above the view settings. As a result of this, the focus is always shifted automatically to the camera images where movement is detected. This, combined with Dim mode (which should be selected for each camera), allows you to use the Silverlight client effortlessly.

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The parameters for a view are explained again in the following list:

Parameter	Meaning	Default value
Width	Width of view in pixels	800
Height	Height of view in pixels	600
Left	Distance of view from the left border of the screen in pixels	50
Top	Distance of view from the top border of the screen in pixels	50
Title	Title of view – displayed as window title	View
TopMost	Always keep view window in background	No.
HasBorder	Window border visible/invisible	yes
ShowOnStartup	Automatically show view when the client starts up	yes
BackgroundImageName	Selecting a background image	none
BackgroundVisible	Display/hide background image	yes
BackgroundOpacity	Opacity of background image (e.g. 0.5)	1
BackgroundStretch	Type of stretch for background image	none
AllowZoom	Allow digital zoom in view	yes
AutoZoom	Automatic digital zoom in Live mode	yes
ClientPTZVisible	Display/hide control panel for digital zoom	yes
ZoomVisualizerVisible	Show frame that visualizes the current position with the digital zoom	yes
AllowReplayMode	Allow playback of cached scenes	yes
AutoReplayMode	Start playback of cached scenes automatically	yes
ReplayAutoZoom	Automatic digital zoom in Replay mode	yes

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10.5.5 IO control (Http events)

If you have created Http events on the go1984 servers, you can control them via the Silverlight client by right-clicking on the event you want:

Alternatively, select "Events" first in the tree structure and control the Http events on the right side using the On/Off button:

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10.6 iOS client

Use the iPhone/iPad application "iGo1984 HD", available from the Apple App Store, to access the go1984 web server and to look at live images or recordings, and control PTZ cameras.
"iGo1984 HD" does this by connecting via the WLAN or GPRS/Edge/UMTS to one or more servers which have a version of go1984 running on them from version 3.8.1.5 onward. The application can be run in full resolution on both the iPhone and iPad.

To create a new server, first select the "Settings" option and then click on the "+" icon. Apply the following settings to be able to access the go1984 web server successfully:

Name	First of all, enter the name you want for the new server.
Host	IP address or dynamic hostname of your go1984 PC (without inputting http://)
Port	Web server port, set, as before, in the go1984 web server configuration (default = 80)
Username	Username, as specified in the go1984 user administration
Password	Password, as specified in the go1984 user administration
Quality	Desired image quality. To request the images in original quality, move the slider completely to the right. The further to the left you move the slider, the more the live images will be compressed. This means that the best possible connection can be established even with locations that have a small bandwidth
SSL	Select the secure web server connection via SSL (only available in go1984 Ultimate)
Active	This button allows you to disconnect and restore the connection to individual go1984 web servers separately.

If you want to delete again a previously defined go1984 server, simply swipe over the server name from left to right and then tap on "Delete".

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To complete the settings, press the "Save" button. You can then access the views from the live cameras via the "View" option

Swipe across the screen to show further cameras. Tap twice on the image to zoom in to the camera you want. If it is a movable PTZ camera, you have the option to move the camera by tapping in the live image. You can also control cameras that support area zoom by opening a frame in the image using two fingers. You will find control panels for cameras beneath the image with zoom functionality ("-" and "+"), as well as the option to control the positions previously defined in go1984 ("1"-"8").

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You can use a digital PTZ function with fixed and movable cameras without any optical zoom. Zoom in to the area you want simply by making the two-finger zoom movement or quickly tap twice and then move the image in the direction you want. This can help you make important details recognizable, especially in the case of high-resolution megapixel cameras.

Quickly tap twice or use the two-finger zoom movement to display the full image again based on the digital PTZ that has taken place.

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Select "Done" to return to the list of camera views. If you select the "Recordings" option, the list of recordings appears for the camera you've just chosen. Once again, you can swipe over the screen to scroll through the recordings and tap twice on an image to play the recording you want. During playback you also have available the digital PTZ function described above. Tap and slide the progress bar that is displayed below the scene to go quickly to wherever you want in the recording.

You can press the "Date" option to select the day you want.

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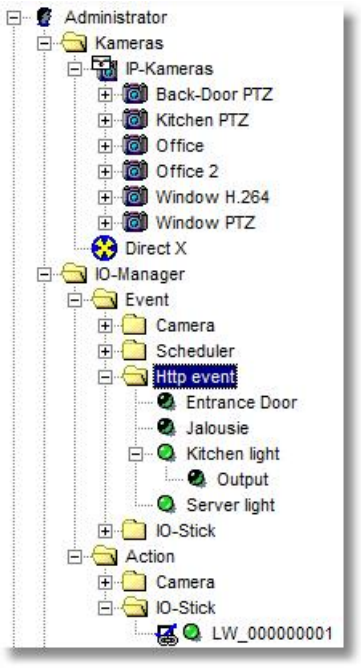
If you have created "Http events" on the highlighted go1984 server, you can activate them via the client. You can find out more about Http events in the relevant section by clicking here. Tap "I/O" to display the digital outputs that are available:

This allows you to "control remotely" certain functions in go1984 (e.g. activating/deactivating alarm functions, activating/deactivating cameras, etc.) or activate the digital outputs that are available from IP cameras or the logiware I/O stick. The figure below illustrates, for instance, the connection for activating the digital output on the logiware I/O stick via the Http event (in this case, "Kitchen light"):



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You also have the option to receive a message via iOS Push when a movement is detected. This means that you can choose the push condition you want for each camera:

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Furthermore, the go1984 web server provides a special interface for the iPhone.

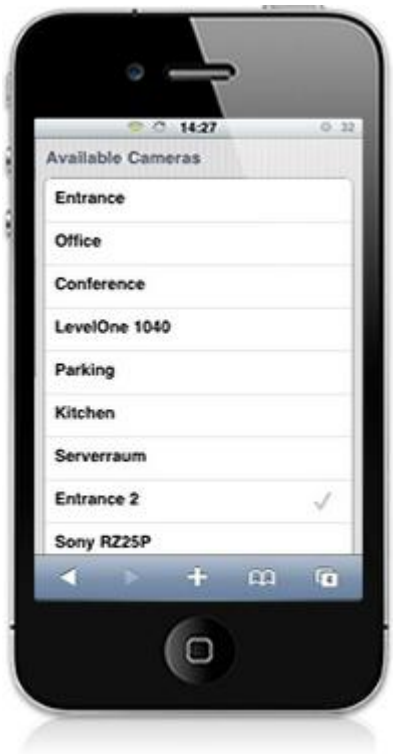
Call up the web interface in your browser by using the following URL:

http://ip:port

Replace the variables as follows:

ip	by the IP address or domain name of the computer running go1984
port	by the port defined in the webserver configuration (default is 80)

To change camera, select one from the camera list.



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Each camera gives you access to the entire recordings archive. You can use this simply to browse through the scenes available for a particular day or select another day. To help you find the relevant scene quickly, a preview is displayed for each recording. When you select the scene you want it starts playing.

If it is a PTZ camera you can insert transparent buttons next to the relevant camera so that you can pan, tilt and zoom the camera via the touch-sensitive display.

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10.7 Android client

Use the Android application "go1984 Android", available from the Android Market, to access the go1984 web server and to look at live images or recordings, and control PTZ cameras.
"go1984 Android" does this by connecting via the WLAN or GPRS/Edge/UMTS to one or more servers which have a version of go1984 running on them from version 3.8.2.0 onward.

To create a new server, first press the "Menu" hardware button and then click on the "+" icon.

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Apply the following settings to be able to access the go1984 web server successfully:

Host	IP address or dynamic hostname of your go1984 PC (without inputting http://)
Port	Web server port, set, as before, in the go1984 web server configuration (default = 80)
Username	Username, as specified in the go1984 user administration
Password	Password, as specified in the go1984 user administration
Quality	Desired image quality. To request the images in original quality, move the slider completely to the right. The further to the left you move the slider, the more the live images will be compressed. This means that the best possible connection can be established even with locations that have a small bandwidth

If you want to delete again a previously defined go1984 server, first press the "Menu" hardware button and then "Delete".

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To complete the settings, press the "Save" button. You can then access the views from the live cameras directly. Additional go1984 servers can be added using the above-described procedure. The individual servers can then be chosen by selecting the relevant tab above the camera images:

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Swipe across the screen to show further cameras. Tap on an image to zoom in to the camera you want. If it is a movable PTZ camera, you have the option to move the camera by tapping in the live image. You can also control cameras that support area zoom by opening a frame in the image using two fingers . You will find control panels for cameras beneath the image with zoom functionality ("-" and "+"), as well as the option to control the positions previously defined in go1984 ("1"-"8").

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You can use a digital PTZ function with fixed cameras without any optical zoom. Zoom in to the area you want simply by placing your finger briefly on the point you want and swiping your finger up. This can help you make important details recognizable, especially in the case of high-resolution megapixel cameras.

Place your finger again briefly on the screen and swipe your finger down to display the complete image, based on the digital PTZ that has taken place.

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Press the "Back" hardware button to return to the camera view. Press the "Menu" hardware button and then select "Recordings" to display the list of recordings for the camera you've just chosen.

Once again, you can swipe over the screen to scroll through the recordings and tap on an image to play the recording you want. During playback you also have available the digital PTZ function described above. Tap and slide the progress bar that is displayed below the scene to go quickly to wherever you want in the recording.

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After pressing the "Menu" hardware button, you can select the day you want via the "Date" option:

If you have created "Http events" on the highlighted go1984 server, you can activate them via the client. You can find out more about Http events in the relevant section by clicking here. To show the digital outputs available, after pressing the "Menu" hardware button, tap the "I/O" option while you are in the camera view:

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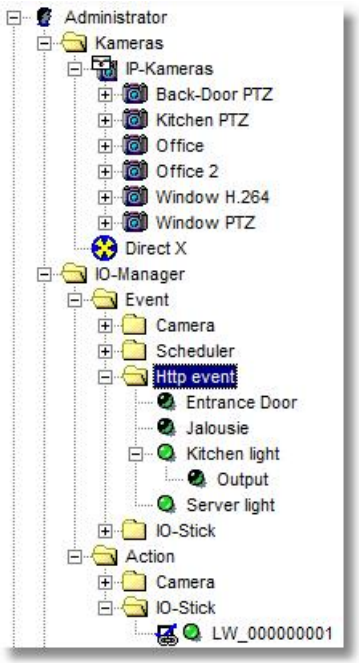
This allows you to "control remotely" certain functions in go1984 (e.g. activating/deactivating alarm functions, activating/deactivating cameras, etc.) or activate the digital outputs that are available from IP cameras or the logiware I/O stick. The figure below illustrates, for instance, the connection for activating the digital output on the logiware I/O stick via the Http event (in this case, "Kitchen light"):



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10.8 Clustermode

In the Enterprise or Ultimate edition of go1984 any cameras that have been integrated on a remote computer into another go1984 Pro, Enterprise or Ultimate version can be added as "cluster cameras".

This offers benefits in terms of:

- Network load: images can only be transmitted when a motion is detected; the camera on the cluster client is almost in standby mode
- Performance: it may also be sensible to set up a cluster system for load distribution. The cluster server or servers will then take over motion detection while the cameras on a central cluster client are brought together.

A new cluster camera is created on the cluster client in the same way as adding an IP camera. This means that you select the "IP cameras" option in go1984 Explorer. Then choose the camera "go1984 Camera" from the selection list.

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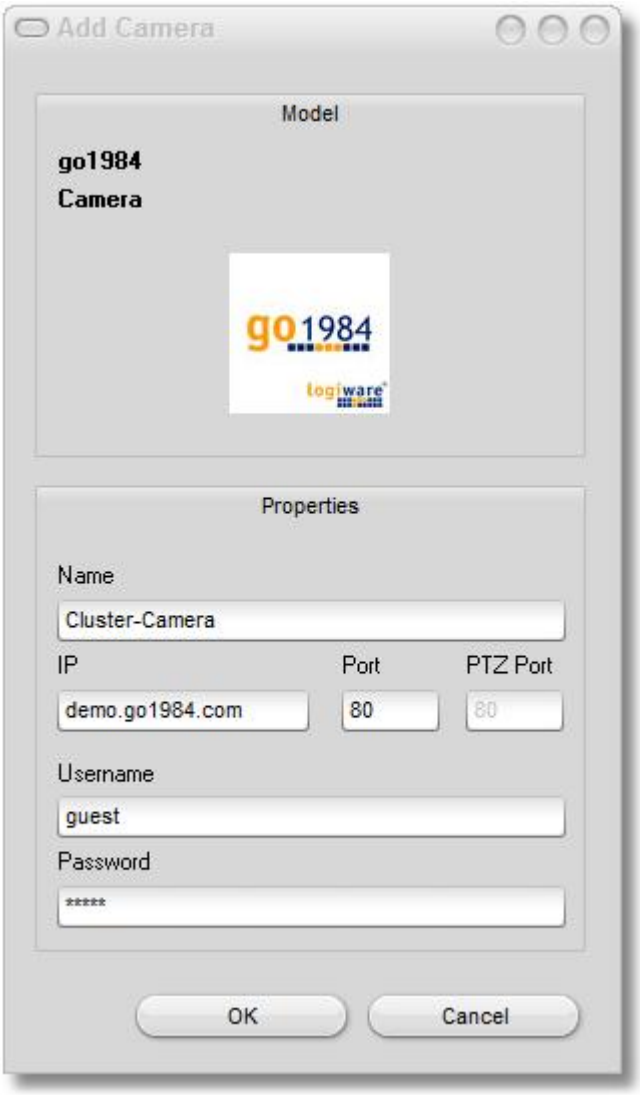
Give the camera a unique nickname which can be used for it in go1984 and specify the IP address or host name under which the go1984 cluster server can be accessed.

If the user manager is active on the cluster server you must enter a valid username/password combination for authentication.



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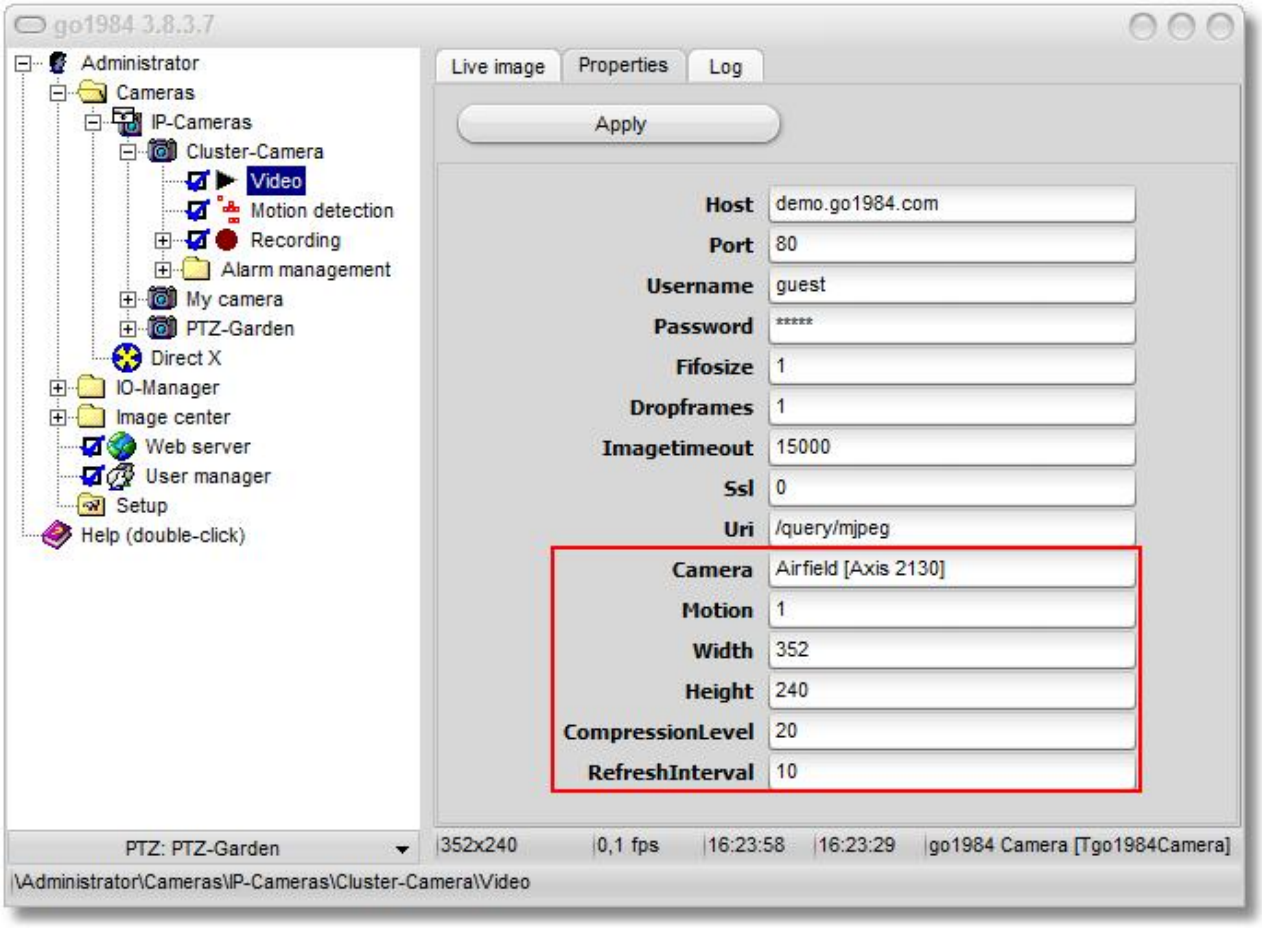
You must then enter the name of the cluster server camera in the "Camera" field which you intend to access. You can also determine via the "Motion" parameter whether images should be transmitted permanently (Motion = "0") or only when motion is detected (Motion = "1"). If you want to have images transferred only when a movement is detected (Motion="1"), you can also request, using the "RefreshInterval" parameter, an up-to-date image every "X" seconds so that the displayed image is updated at a set interval when very random movements occur.

If you intend to transmit the image in a different resolution or compression level to that of the original image due to a small amount of bandwidth being available, you can set this via the parameters "Width" and "Height" or "CompressionLevel". A compression level of "100" corresponds to the image's original quality.



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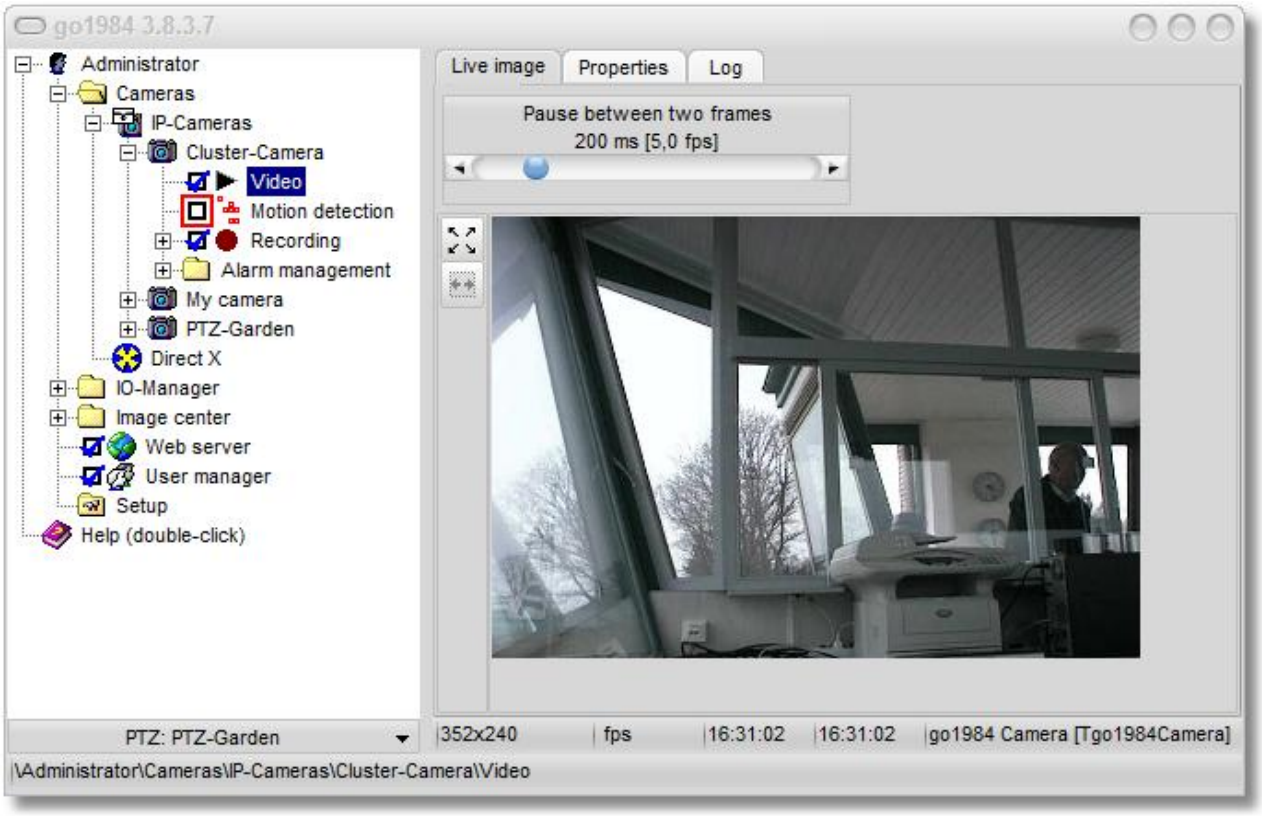
You can see in the screen below that no images are transmitted as long as there is no kind of movement ("0 fps"). The cluster camera is therefore almost in standby mode. The motion detection function can now be deactivated. Then every relevant image transmitted is recorded.



Note:

A web server session is initiated on the cluster client for every active cluster camera. If the cluster server being used is a Pro edition one, a maximum of two cameras can be operated in this way (see "Editions" -> "Simultaneous client connections").

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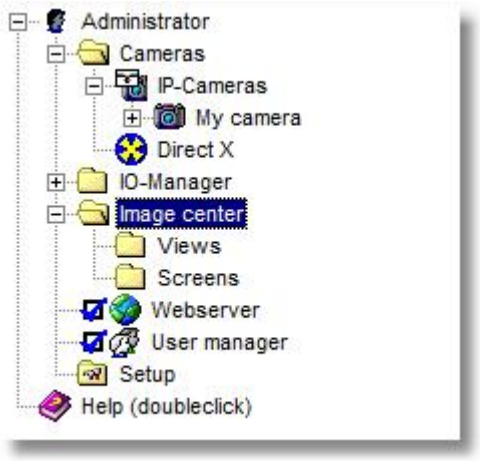
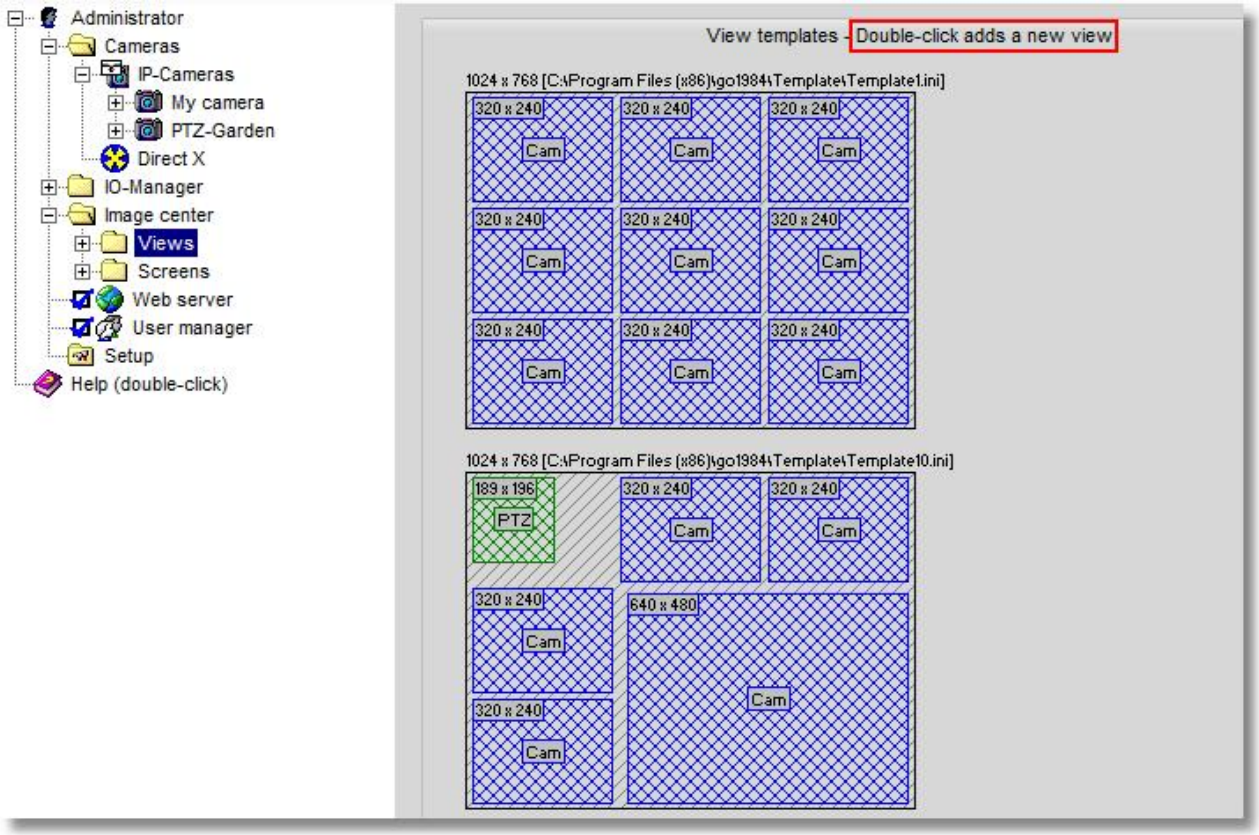
11 Image Center

The Image Center is a flexible tool for viewing one or several cameras on a screen. The camera arrangement is controlled using so-called views. go1984 provides numerous templates suitable for different resolutions.



First, define a view by selecting the appropriate one from the list of available templates. Double-clicking on it creates a new view that you need to provide with a unique name.



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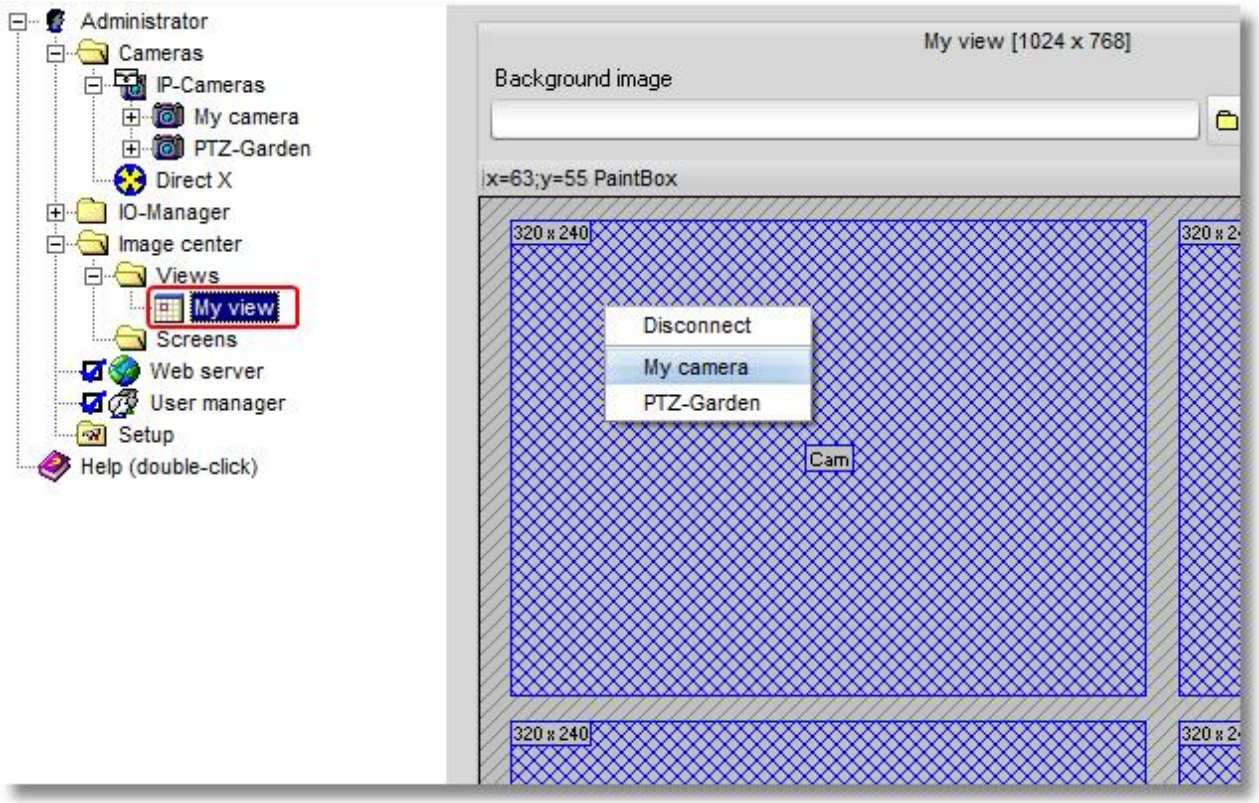
You'll now be shown the newly created view in the go1984 explorer, in which one or several placeholders are defined which will be replaced by the camera images later on. To link a placeholder to a camera, click on it using the right mouse button. This calls up a menu with a list of all available cameras. Select a camera from the list. You also have the option of placing a graphic behind the entire view.



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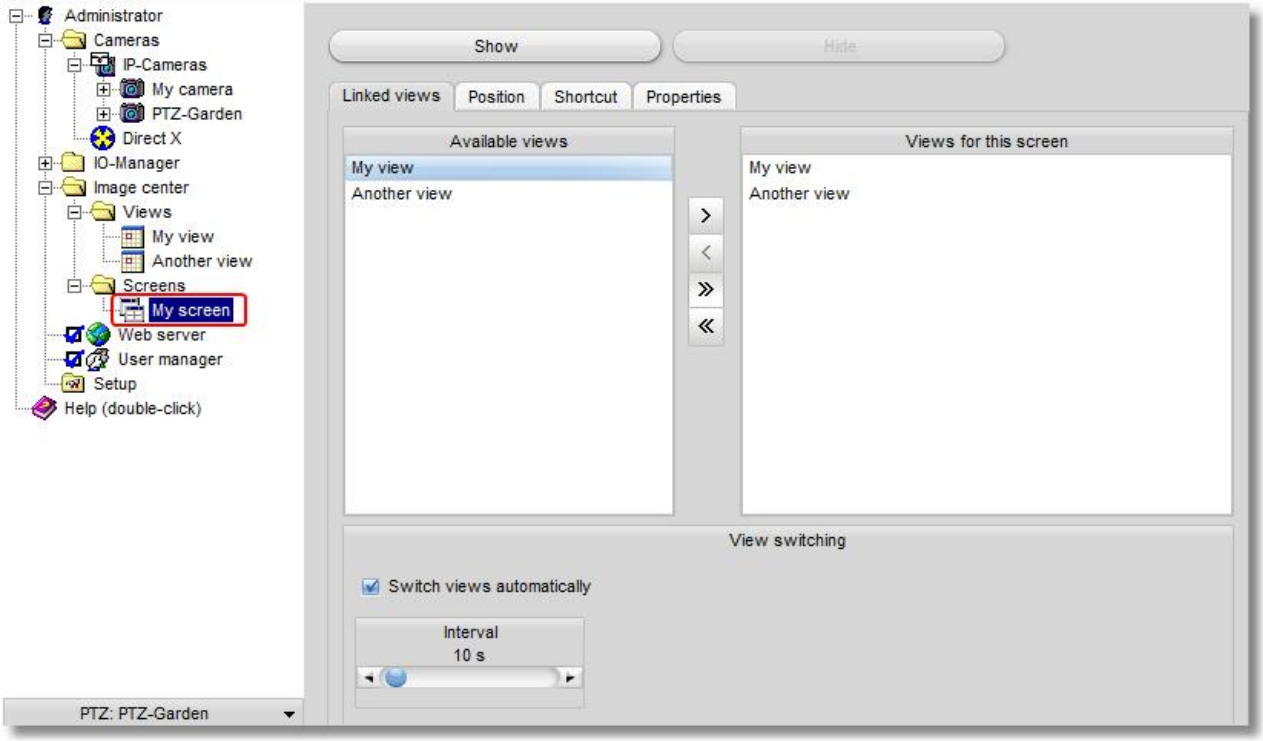
You can define as many views as you like, which can then be displayed simultaneously on various monitors or sequentially on a single monitor. Next, select the "Screens" entry from the go1984 explorer in order to generate such a representation. First, click on the "Create a new screen" button. A "Screen" can contain one or more views. Use the button to select and add the desired views to the list of "Views for this screen". If you've added several views, go1984 can automatically switch between them at certain intervals.



You can modify additional settings such as "Position", "Keyboard shortcuts" or "Properties" using the corresponding entries.

Clicking on the "Show" button displays the preset "Screen".

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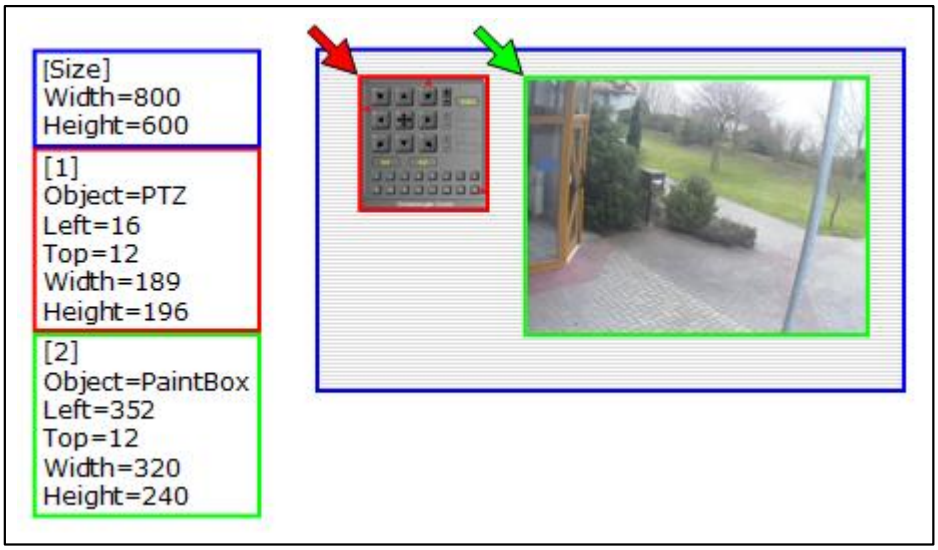
Defining customized views

If the views supplied don’t match up with your expectations, you can add more templates in a simple manner.

You will find the definitions for the views (*.ini) under the go1984 installation folder in the "Template" directory. You can edit these using a simple text editor or you can add more vi

The definitions describe the following in detail:

[Size]	size of the whole view
[No.]	numbering of the objects contained: these may be specifically - "PaintBox" a placeholder for the camera image - "PTZ" a placeholder for the PTZ field for a controllable camera



Note:

The new template will only be available after you have restarted go1984.

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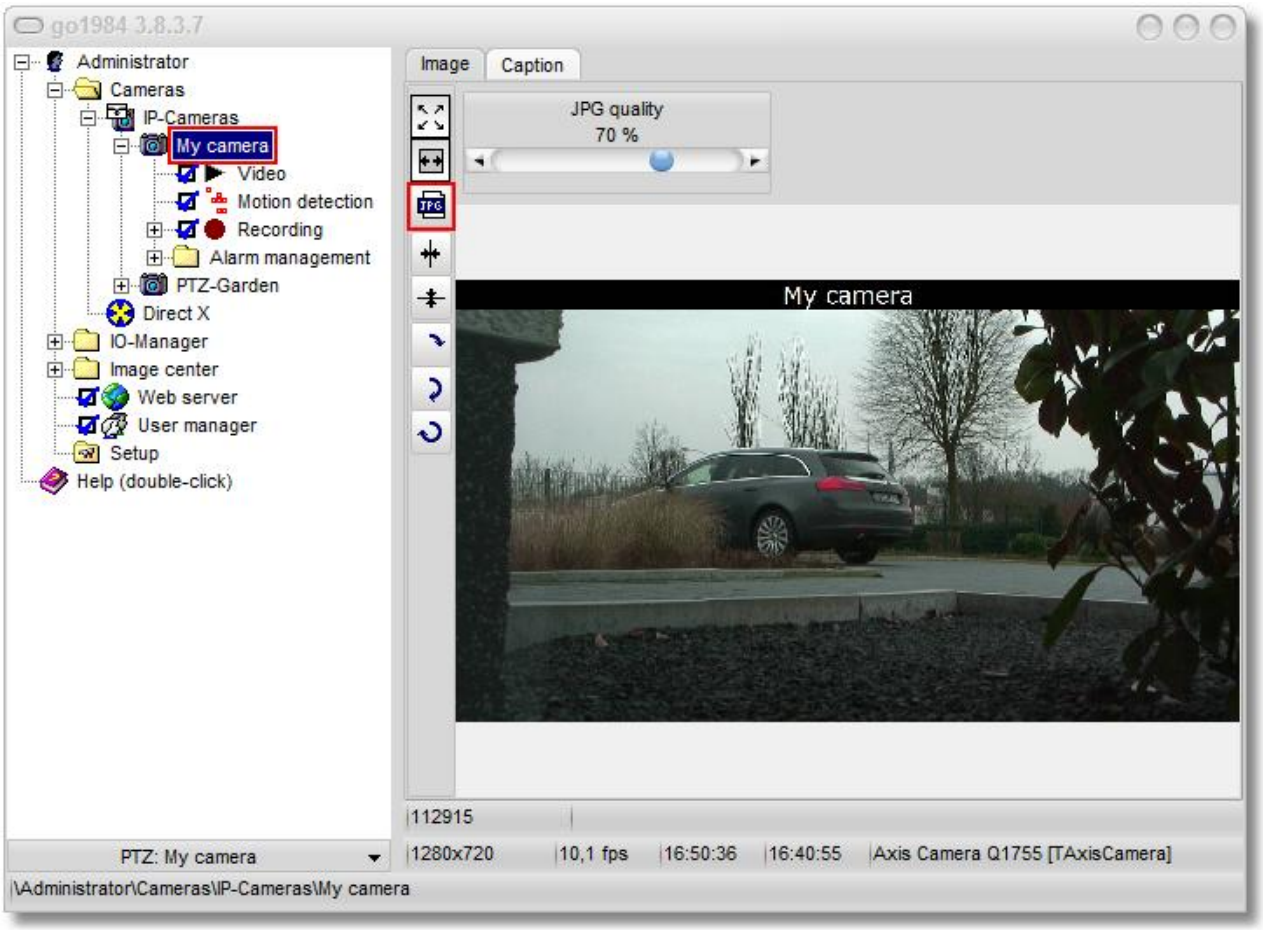
12 Additional settings

12.1 Camera

In order to modify other camera settings, please select the camera in the go1984 explorer. You now have the option of influencing image processing.

Note regarding IP cameras:

The JPG button carries out a special function. While it is activated, the original *.jpg image from the IP cameras is used in go1984; modifications such as rotating, mirroring or adding text are not possible. In this way, go1984 can run at its optimum performance level. **Wherever possible, try to apply camera settings in the camera itself which make further modifications by go1984 unnecessary.** If your camera is not able to do this, deactivate the JPG button and apply the settings in go1984.



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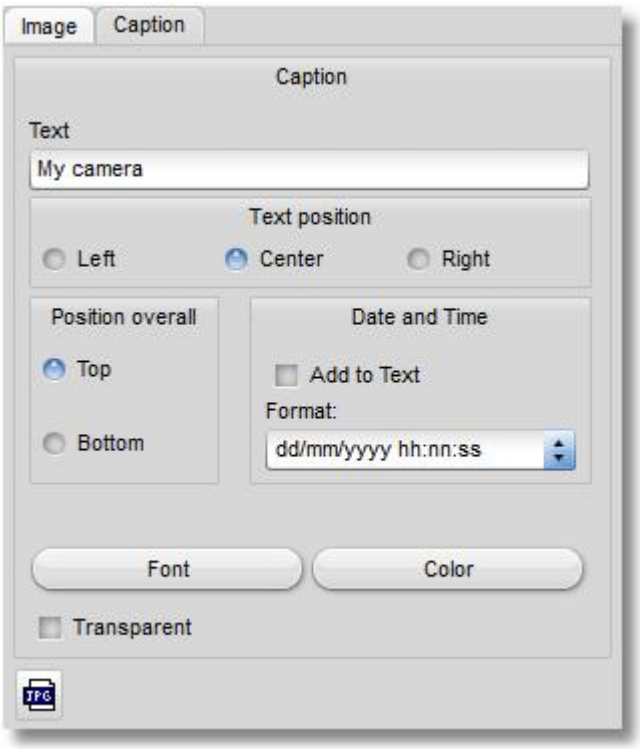
If you want the image to be captioned, use the [Caption] tab. This function is also only available when the button is not activated.



- Fit image to visible area (expand)
- Maintain image proportions
- Use original image from camera (for best performance)
- Flip image horizontally
- Flip image vertically
- Rotate image by 90°
- Rotate image by 180°
- Rotate image by 270°

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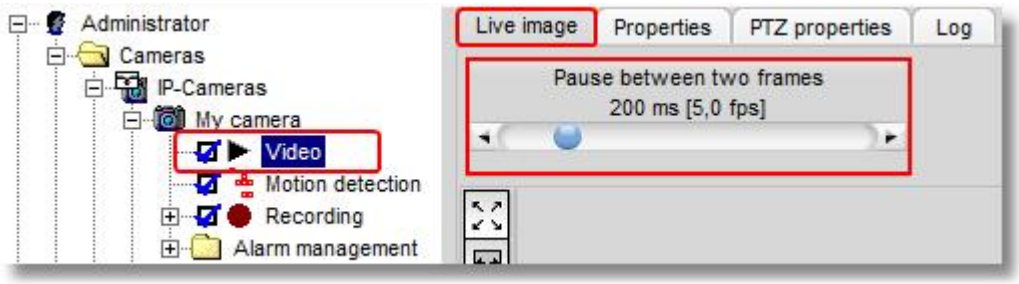
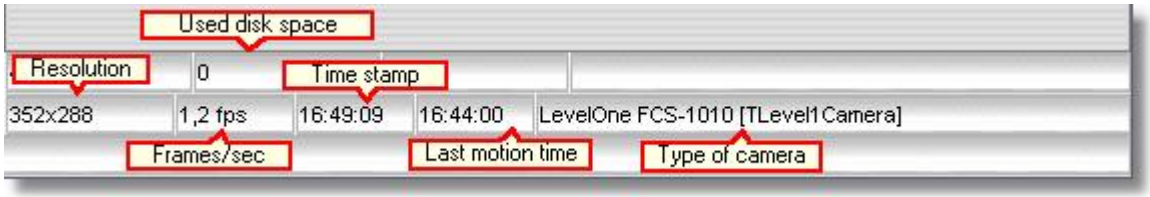
You set the image record pause using the following sliders. The default setting is 200 ms, i.e. 5 images per second (fps). In order to avoid increasing the network load and memory requirements unnecessarily, you should in this case set the actual value required rather than the highest possible value. In most cases, using higher image refresh rates hardly results in scenes with greater information content.



As with many other sliders, you also have the option here to specify for your own convenience the value you want in an additional window which opens when you double-click on [Pause between two frames].

Some additional information about the camera is displayed at the bottom of the screen.



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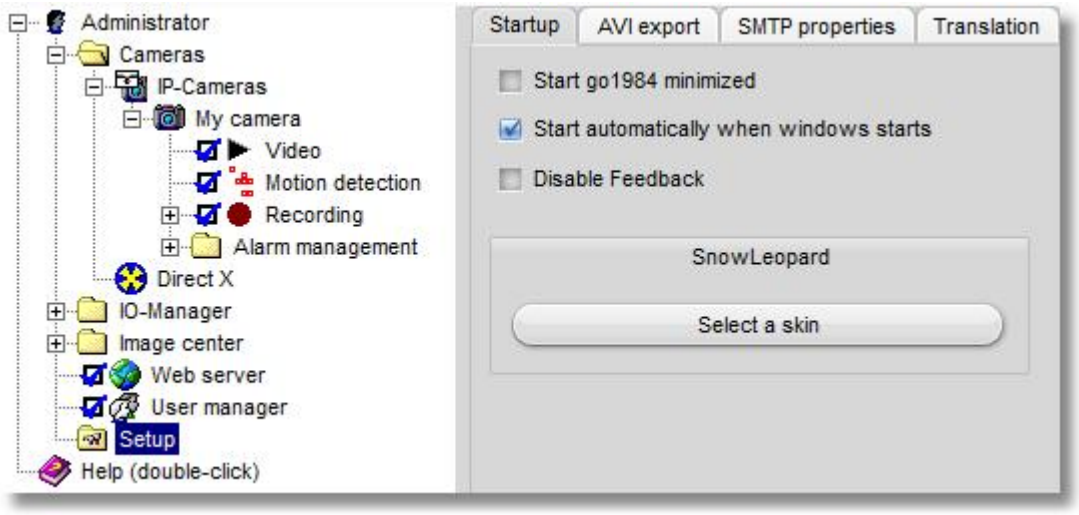
12.2 Startup settings

You can choose to launch go1984 minimized. In this case, the application will not be visible at first. Only the little go1984 program icon will appear next to the system clock. Double-clicking on the icon will open the application interface. As a further option, you can set go1984 to be launched automatically when Windows is started. If you are operating go1984 in service mode (see "Installation" section), deactivate this option as the go1984 service is then automatically started. If you don't like the selected standard skin, you can choose a different one.



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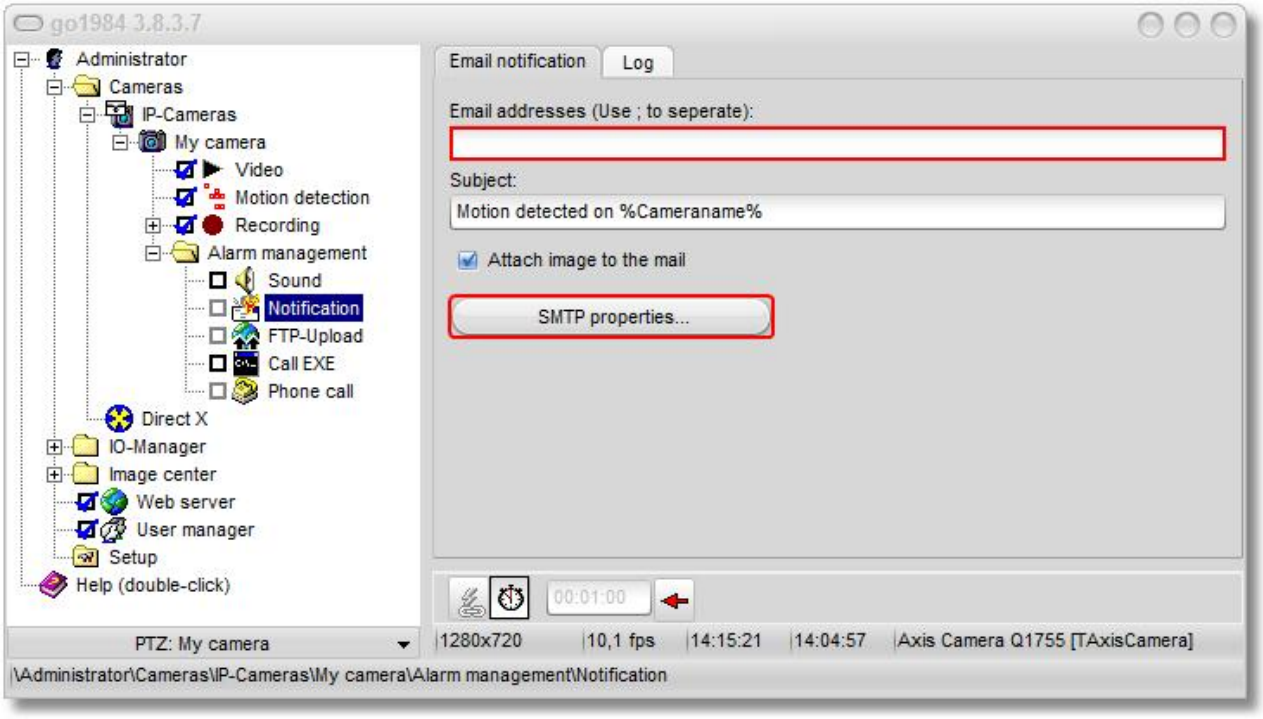
12.3 SMTP server configuration

In order to enable e-mail sending from go1984, a so-called SMTP server first needs to be entered; this only has to be done once. Outgoing e-mails are sent to this server and ultimately to the recipient. Your provider can supply you with the settings required to configure the SMTP server. Alternatively, you can obtain the information from your e-mail program (Outlook, Outlook Express etc.). A list of the most common servers is supplied in the appendix.



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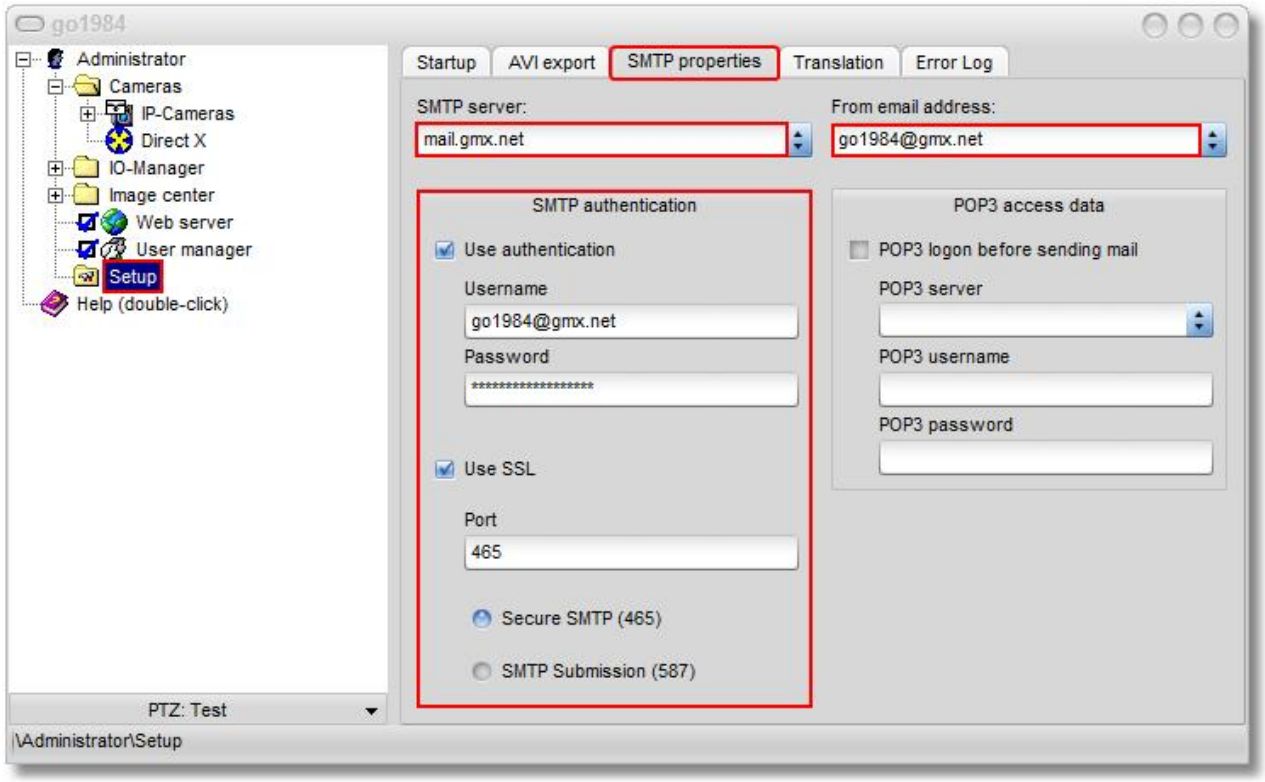
In most cases, it is sufficient to complete the fields shown in the diagram. If go1984 is still not able to send e-mails, check the settings or test using the "POP3-before-SMTP" authentication method. To do so, please complete the "POP3 access data" block."



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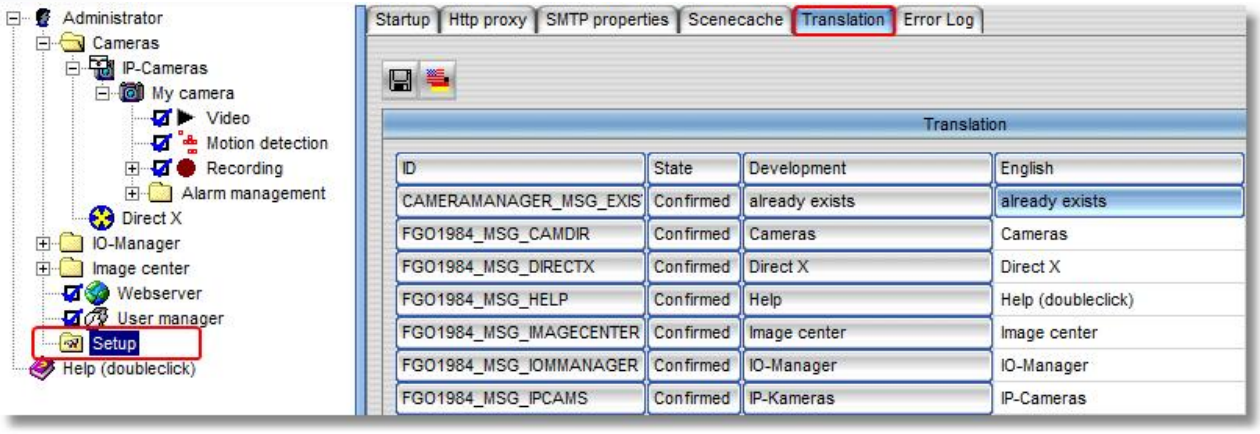
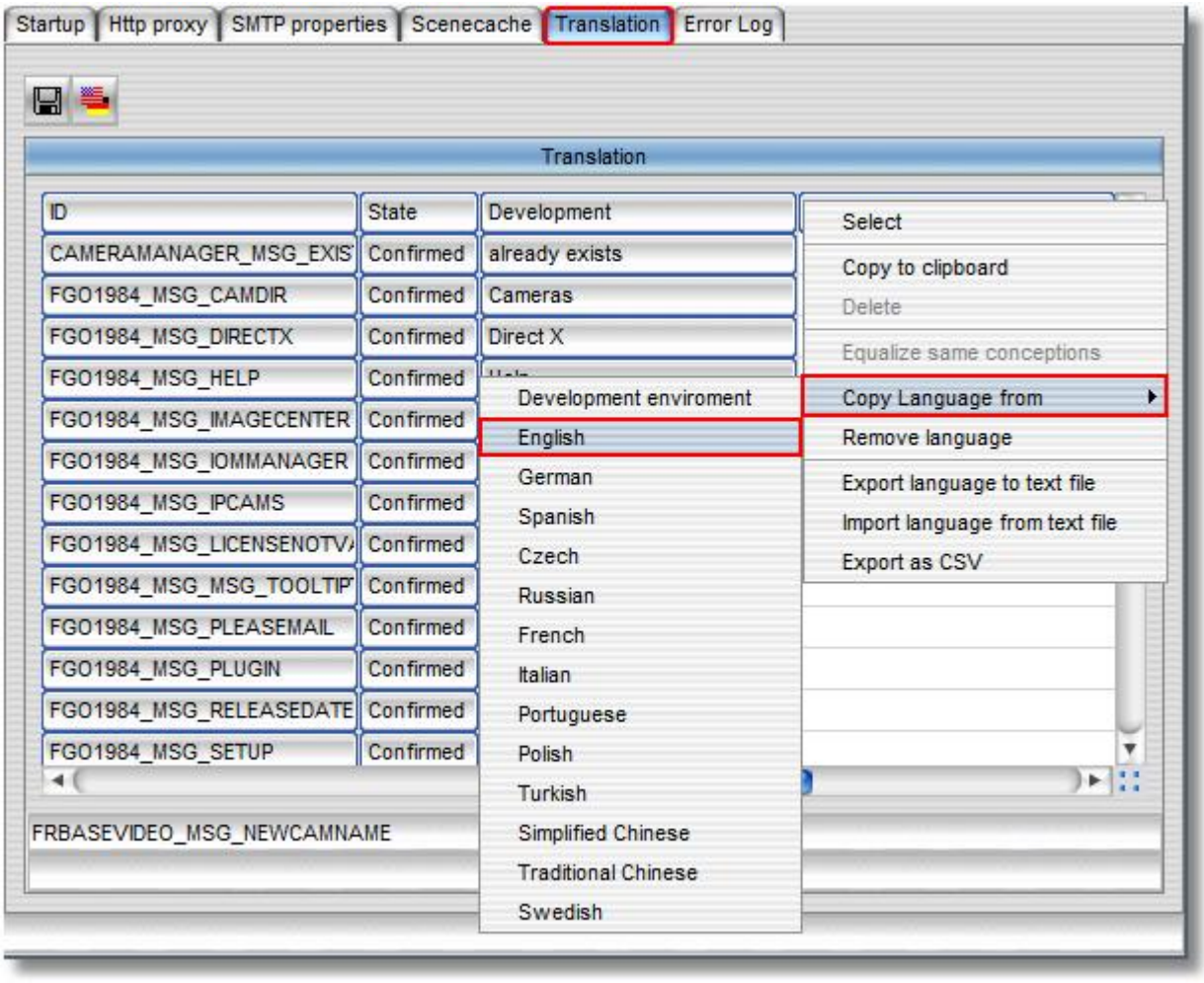
12.4 Translation

It is possible to integrate new languages for the interface. The following table shows the available languages.



If you wish to create a new language option, right-click on a free column in the table. Select an existing language as a template. A dialog box appears requesting you to enter a name for the new language (e. g. Spanish). Use the existing languages to translate terms line by line into the new language. After completing the translation, the newly created language option is immediately available.



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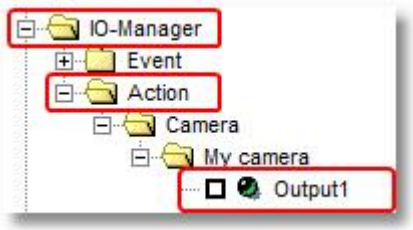
13 Event management

go1984 includes a highly flexible event management option, which permits go1984 to be individually configured. Various input and output signals are available. These signals can be supplied to go1984 by cameras, schedulers or plug-ins.

Every input signal can be linked to one or more actions. The most important signals are automatically linked to standard actions after go1984 is installed. For instance, motion detection is linked to recording and notifications of the respective camera. However, you have the choice of changing these links.

The following output signals (Actions) are available (depending on camera type):

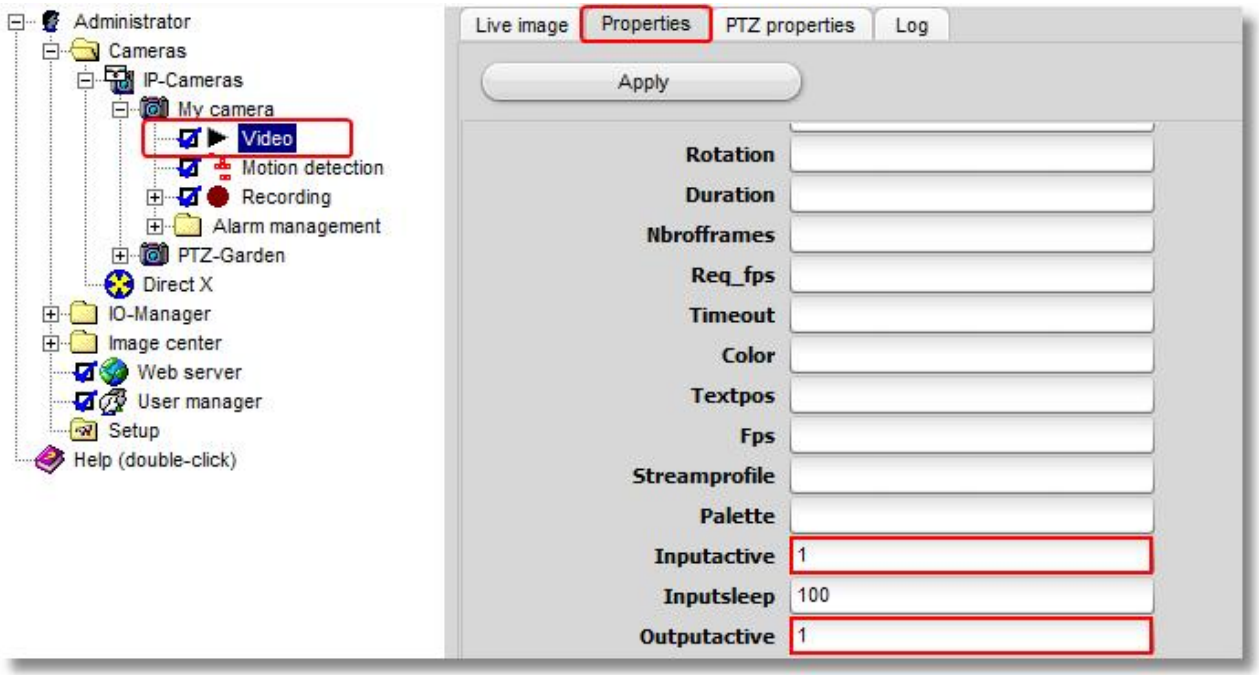
☐ Output1, ☐ Output2, ...



This output signal can be used to switch a camera's digital output (if available) on or off. It can be used for applications such as controlling a door-opener, for instance.

Note:

An IP camera's digital inputs or outputs are not supplied as standard. They must be explicitly activated when required, in other words, set from "0" to "1".



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The following input signals (Events) are available:

Signal	is activated when...
Active	the camera is active, which means that the option box next to the "Video" option is ticked.
Darkness	the brightness of the camera image is very low (see Motion detection -> Settings -> "Brightness is less than").
Error	the camera reports an error or is not available.
Idle	no further motion has been detected for the value "Motion detection" -> "Settings" -> "Delayed detection".
Input1, Input2, ...	the camera's digital input is being closed.
Motiondetector	a movement is detected.
MotionOverload	the motion level is very high (see Motion detection -> Settings -> "Motion value is greater than").
NewImage	a new image is transmitted from the camera.
PreRecording	pre-recording is active.
Recording	images are being recorded at that moment.
SceneActive	a new scene is recorded and the interval specified without movement which must elapse before the next scene is generated (see "Scene generation" -> "No motion was detected for this time interval") has not yet expired.
Scheduler	the scheduler is in the green range.
Http event	the http event is currently active.

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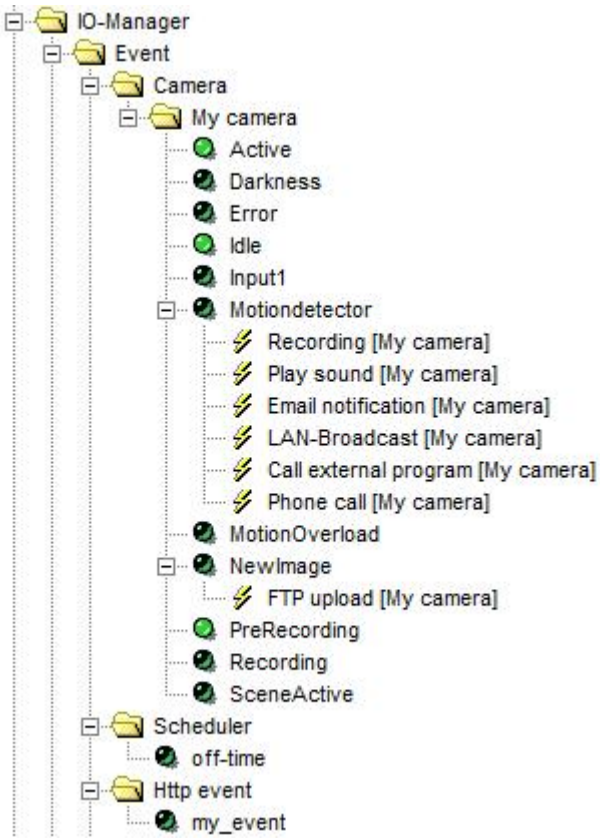
The different input signals are grouped in the program's IO Manager. LEDs are depicted to the left of the signals. The LEDs may indicate the following status:

- Signal on
- Signal off
- Signal is deactivated and therefore not available (default setting for camera inputs and camera outputs)

You can view the different signals from the cameras in the IO Manager under the "Event" entry. It also shows you which signal has been linked to which action.



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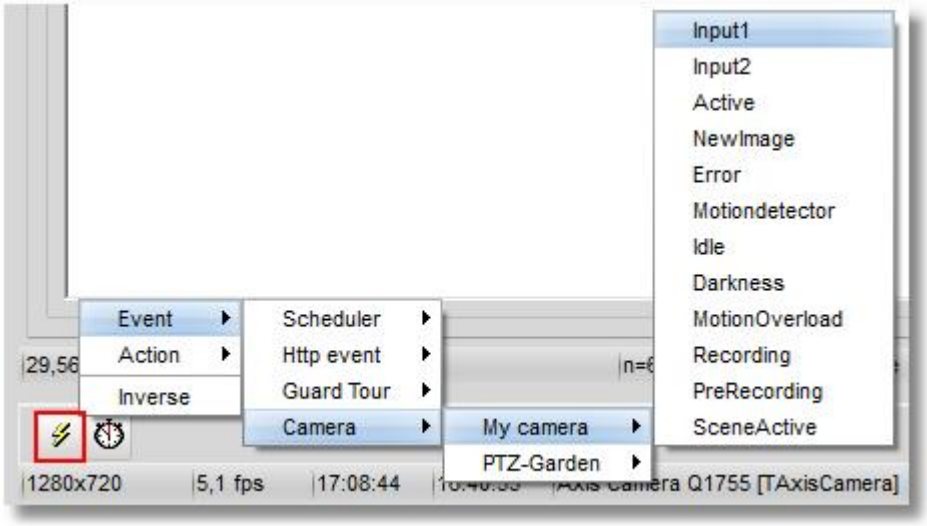
You can create links anywhere the mouse pointer changes to the following symbol:
Clicking on the icon with the right mouse key will open the links menu. The following example illustrates the process.

Example:

An IP camera's digital input has been linked to a doorbell. Whenever a visitor rings the bell, the camera is supposed to start recording. To set up this event, first choose a camera in the go1984 explorer and then select the "Record" option.

The various settings available for go1984's recording function are shown. The Action button is near the bottom. The button is linked to go1984's internal motion detecting after installation. You can now change this link, mapping it to the camera's digital input. Click on the button with the right mouse key to open the menu. Afterwards, select "Input1" as an input signal, as shown in the diagram. After you've defined this setting, the camera will start recording as soon as the contact at the camera's digital input is closed.



Note:

Please note that a single input signal can also be linked to several different actions.

In the example above, for instance, you could have the same signal trigger e-mail notification in addition to recording. Furthermore, a camera's signals are also available for all other cameras. In the example, the input signal from a single camera could be used to control the recording function of all cameras.

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